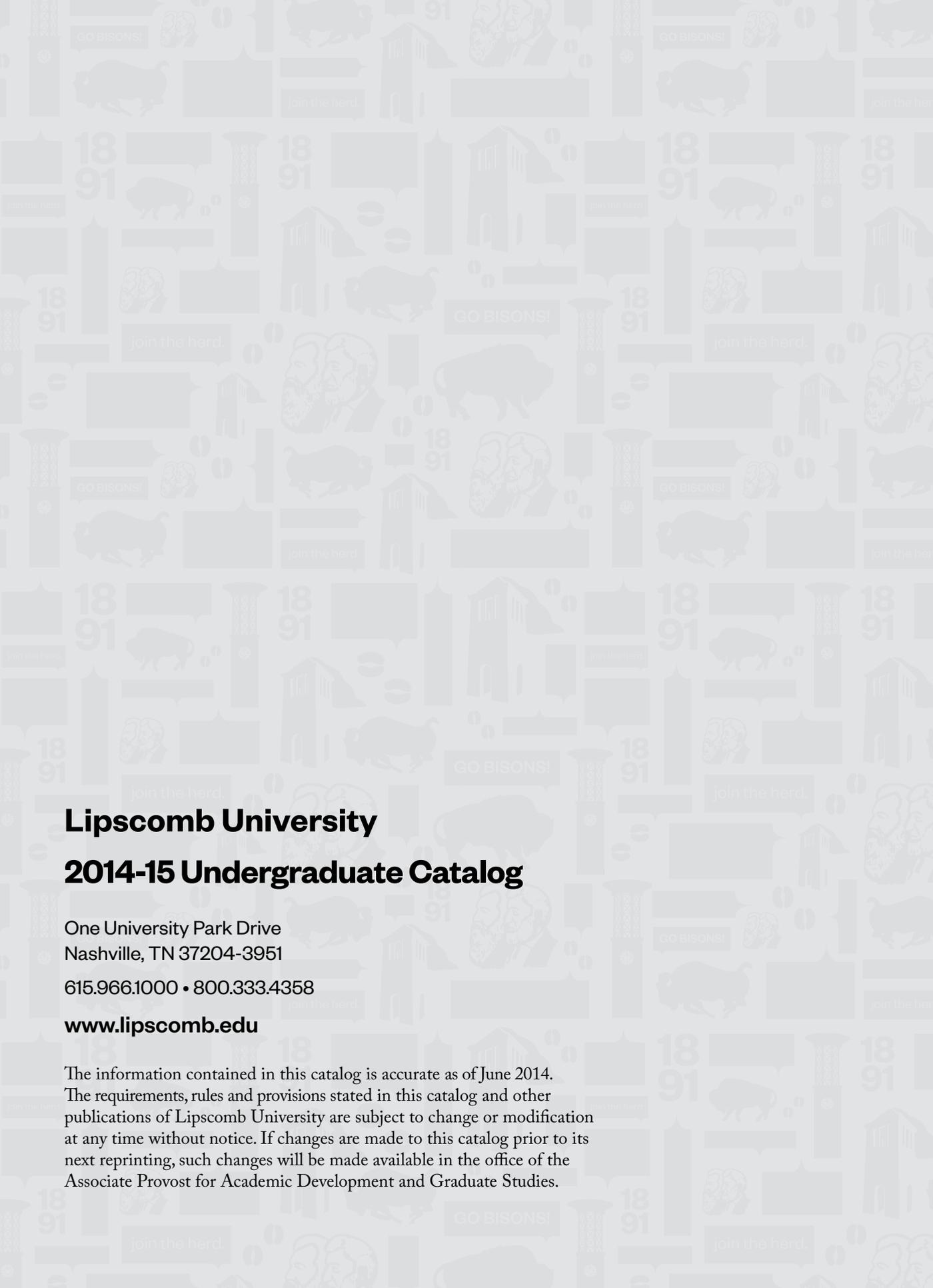


Undergraduate Catalog

2014-15



Lipscomb University

2014-15 Undergraduate Catalog

One University Park Drive
Nashville, TN 37204-3951

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www.lipscomb.edu

The information contained in this catalog is accurate as of June 2014. The requirements, rules and provisions stated in this catalog and other publications of Lipscomb University are subject to change or modification at any time without notice. If changes are made to this catalog prior to its next reprinting, such changes will be made available in the office of the Associate Provost for Academic Development and Graduate Studies.

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Lipscomb at-a-glance



Programs of Study

Lipscomb University offers an intellectually challenging academic program with a commitment to continual spiritual formation while engaging the world. Lipscomb's more than 4,000 students study in academic areas that range from majors in the liberal arts to programs of study in pre-professional and professional disciplines. In addition to master's and doctoral degrees, Lipscomb offers the following undergraduate degrees: Bachelor of Arts, Bachelor of Business Administration, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Professional Studies, Bachelor of Science, Bachelor of Science in Nursing and the Bachelor of Social Work. Lipscomb's general education program is a rich combination of traditional course work (composition, communication, math, science) and integrated course work that explores the connections between disciplines and engages students in applying those connections to a 21st century world.

National Honors and Awards

Lipscomb University was again named a Top 20 University in 2014 by U.S. News & World Report and selected as one of only 16 "top up-and-coming" master's universities in U.S. News & World Report's *2010 America's Best Colleges Guidebook*. In 2013, the College of Education was named one of four top teacher preparation programs in the nation by the National Council on Teacher Quality.

Great Location

Lipscomb's beautiful 65-acre campus is located in the Green Hills area of Nashville, Tennessee, just four miles from downtown. Nashville is one of the nation's most exhilarating cities and is located within one day's drive of 75 percent of the nation's population.

Engaging the World

The city is our campus, and the world is our classroom. An important component of a Lipscomb education is global engagement. Lipscomb offers study opportunities throughout the world. Students also engage in humanitarian service through SALT (service learning) and mission programs.

92 Percent Placement Rate

When students graduate from Lipscomb University, 92 percent of them are placed in jobs or graduate schools within six months, compared to a 78 percent average at similar institutions.

Diverse Population

The Lipscomb community is diverse, with a student body that comes from 44 states and 38 nations and territories representing a rich diversity of ethnic and religious experiences.

Athletics

The Bison athletics program is a vital part of campus life. Competing in the NCAA Division I as a member of the Atlantic Sun Conference, Lipscomb continues to build on its tradition of athletic success with several teams advancing to the NCAA national tournament.

Integration of Faith & Academics

Our faculty intentionally integrate Christian faith and practice into the academic curriculum. Lipscomb is a member of the Council for Christian Colleges and Universities.

Community Service Leader

Lipscomb was named a "Community Engaged Campus" by the Carnegie Foundation for the Advancement of Teaching in 2012. One of only 311 schools in the country to be given this honor, Lipscomb has a commitment to community engagement that is demonstrated in the university's mission, culture, leadership, resources and practices. The Nelson and Sue Andrews Institute for Civic Leadership received a 2013 Regional Thinking and Action Award recognizing successful examples of growth leadership by Cumberland Region Tomorrow.

Going Green

Lipscomb is leading the way for universities in Tennessee by using geothermal technology and other sustainability practices. Lipscomb University was selected as one of the country's most environmentally-responsible colleges to be included in the *The 2013 Princeton Review's Guide to 322 Green Colleges*.

A Message from the President

I am very pleased that you have chosen Lipscomb University! Lipscomb is a Christian community of scholars dedicated to learning, leading and serving, preparing each student for excellence today, tomorrow and forever.

In that statement are two important considerations. One is that Lipscomb is a Christian community; our world view is informed by Jesus Christ who we believe lived as the incarnation of God on this earth. We hunger for truth, with scripture as the foundation for learning, but we look for truth wherever it may occur in God's creation. We hold confidently to the notion that faith demands excellence, and we look forward to exploring those concepts with you for the next few years.

Also in that statement is the proclamation that Lipscomb is a community of scholars. You will enjoy learning from, and with, highly qualified faculty members who will be personally engaged in your academic program and continue to be learners themselves. Most of our faculty have the highest degrees awarded in their fields of emphasis and have received those degrees from institutions around the country and the world.

Our focus, however, is on you. Our goal is to equip you for the world as it is today, to prepare you for success in the world as it will exist tomorrow, and motivate you to give of yourself to better the lives of others. You will find friends from among a surprisingly diverse student body that comes from 44 states, 38 foreign countries and a broad range of religious backgrounds and cultures. You will have opportunities to study and serve throughout this community and the world—Nashville is our campus, and the world is our classroom.

Today, tomorrow and forever. Those are the three words that should be at the center of your college experience. I believe you have chosen the best university from which to explore them. Welcome to Lipscomb!



L. Randolph Lowry
President



Calendar

2014-15

Fall Semester 2014

Residence halls open	
Freshmen	Aug. 10-11
Upperclassmen	Aug. 16-17
Term I classes begin	Aug. 18
Classes begin	Aug. 18
Last day to add classes	Aug. 24
Labor Day holiday	Sept. 1
Last day to drop classes w/partial refund (full term)	Sept. 12
Last day to drop classes (Term I)	Sept. 19
Mid-term grades due	Oct. 8-10
Term II classes begin	Oct. 13
Fall break	Oct. 17
Advising	Oct. 20-31
Last day to drop classes (full term)	Oct. 26
Preregistration	Nov. 3-6
Last day to drop classes (Term II)	Nov. 14
Thanksgiving holidays (Residence halls closed)	Nov. 24-28
Study day	Dec. 4
Final examinations	Dec. 5-11
Commencement	Dec. 13
Christmas holidays (Residence halls closed)	Dec. 14-Jan. 4

Wintermester 2015.....Dec. 14-Jan. 4

Spring Semester 2015

Residence halls open	Jan. 4
Term I classes begin	Jan. 5
Classes begin	Jan. 6
Last day to add classes	Jan. 11
Martin Luther King Jr. Day holiday	Jan. 19
Last day to drop classes w/partial refund (full term)	Jan. 30
Last day to drop classes (Term I)	Feb. 6
Mid-term grades due	Feb. 25-27
Term II classes begin	March 2
Last day to drop classes (full term)	March 12
Spring break (Residence halls closed)	March 16-20
Advising	March 23-April 3
Preregistration	April 6-9
Last day to drop classes (Term II)	April 10
Study day	April 23
Final examinations	April 24-30
Residence halls close	
Underclassmen	check-out by 1 p.m. May 1
Graduating seniors	check-out by 6 p.m. May 2
Commencement	May 2

Summer Session 2015

Maymester registration and classes begin	May 4
Last day to drop Maymester classes w/ partial refund	May 7
Maymester final examinations	May 22
Residence halls open	May 25
Memorial Day holiday	May 25
Summer session and Junemester classes begin	May 26
Last day to add classes (Term I)	May 28

Last day to drop Junemester classes w/partial refund	May 29
Last day to add classes (full term)	May 29
Last day to drop classes w/partial refund (Term I)	June 2
Last day to drop classes w/partial refund (full term)	June 10
Last day to drop classes (Term I)	June 12
Junemester final examinations	June 18
First term final examinations	June 25
Julymester & second term classes begin	June 29
Last day to add classes (Term II)	July 1
Holiday	July 3
Last day to drop classes (full term)	July 2
Last day to drop classes with partial refund (Term II)	July 7
Last day to drop classes (Term II)	July 17
Julymester final examinations	July 23
Full and Term II final examinations	July 30

2015-16*

Fall Semester 2015

Residence halls open	
Freshmen	Aug. 16
Upperclassmen	Aug. 22
Term I classes begin	Aug. 24
Classes begin	Aug. 24
Last day to add classes	Aug. 30
Labor Day holiday	Sept. 7
Last day to drop classes w/partial refund (full term)	Sept. 18
Last day to drop classes (Term I)	Sept. 25
Mid-term grades due	Oct. 13-15
Fall break	Oct. 16
Term II classes begin	Oct. 19
Last day to drop classes (full term)	Oct. 25
Advising	Oct. 26-Nov. 6
Preregistration	Nov. 9-12
Last day to drop classes (Term II)	Nov. 20
Thanksgiving holidays (Residence halls closed)	Nov. 23-27
Study day	Dec. 10
Final examinations	Dec. 11-17
Commencement	Dec. 19
Christmas holidays (Residence halls closed)	Dec. 20-Jan. 10

Wintermester 2016.....Dec. 20-Jan. 10

Spring Semester 2016

Residence halls open	Jan. 10
Term I classes begin	Jan. 11
Classes begin	Jan. 11
Last day to add classes	Jan. 18
Martin Luther King Jr. Day holiday	Jan. 18
Last day to drop classes w/partial refund (full term)	Feb. 5
Last day to drop classes (Term I)	Feb. 12
Mid-term grades due	March 2-4
Term II classes begin	March 7
Last day to drop classes (full term)	March 12
Spring break (Residence halls closed)	March 14-18
Advising	March 28-April 8

Preregistration April 11-14
 Last day to drop classes (Term II) April
 Study day April 28
 Final examinations April 29-May 5
 Residence halls close
 Underclassmen check-out by 1 p.m. May 6
 Graduating seniors check-out by 6 p.m. May 7
 Commencement May 7

Summer Session 2016

Maymester registration and classes begin May 9
 Last day to drop Maymester classes w/ partial refund May 12
 Maymester final examinations May 27
 Residence halls open May 30
 Memorial Day holiday May 30
 Summer session and Junemester classes begin May 31
 Last day to drop classes w/partial refund (Term I) June 2
 Last day to add classes (Term I) June 3
 Last day to drop Junemester classes w/partial refund June 3
 Last day to add classes (full term) June 3
 Last day to drop classes w/partial refund (full term) June 7
 Last day to drop classes (Term I) June 17
 Junemester final examinations June 23
 First term final examinations June 30
 Holiday July 4
 Julmester and Term II classes begin July 5
 Last day to add classes (Term II) July 7
 Last day to drop classes with partial refund (Term II) July 8
 Last day to drop classes (full term) July 11
 Last day to drop classes (Term II) July 22
 Julmester final examinations July 28
 Full and Term II final examinations Aug. 4

*The dates in 2015-16 are subject to change and should be regarded as tentative projections.

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Lipscomb University

As a liberal arts university building upon a 123-year heritage of academic excellence, Lipscomb University offers an engaging, intellectually challenging environment for graduate education and a commitment to encourage and support spiritual formation in every member of the university community. Lipscomb's 65-acre campus, located in the Green Hills area of Nashville, Tenn., provides a beautiful setting which supports a nurturing environment where students can develop professionally and personally.

The Lipscomb community is diverse, with a more than 4,000 member undergraduate and graduate student body representing 44 states and 38 nations that includes numerous ethnic cultures and religious traditions. More than 1500 post-baccalaureate students are enrolled in master's and doctoral degree programs providing academic and professional development opportunities that extend career opportunities. Lipscomb University is highly engaged in providing education to our country's veterans. For the fourth consecutive year, Lipscomb was named in the top 15percent of military friendly schools on the G.I. Jobs Military Friendly Schools list. In addition, Lipscomb's College of Business is listed among the top 25 business schools in the nation for veterans. An average graduate class size of 20 students creates an environment for productive and rich interaction among students from diverse professional and educational backgrounds as well as between students and faculty.

Lipscomb University offers an academically enriching experience that prepares graduates for success in their chosen professions and careers. Classroom facilities provide opportunities for innovative and creative approaches to learning. One example is the James D. Hughes Center which offers cutting-edge facilities that enhance and expand our programs in art and engineering. The newly constructed nursing education facility provides education for the next generation of nurses through use of the most current technology and most contemporary best practices available in health care education. Lipscomb's new Pharmacy and Health Sciences Research Building will enhance opportunities to faculty for significant scholarly research. Exciting new programs and recent honors have broadened our appeal, enhancing the opportunities for Lipscomb graduates. In 2013, U.S. News & World Report again named Lipscomb University a top university in its category.

One of the most compelling indicators of the value of a Lipscomb education is the ability of our graduates to successfully enter the job market or be accepted into institutions for advanced degrees. Within six months of graduation, the overwhelming majority of our graduates are employed in the workforce or accepted into graduate school. Lipscomb's achievement signifies that the excellent education provided by our program is highly desired by employers and greatly respected by other institutions of higher learning. One example of this excellence is Lipscomb's teacher training program, named by the National Council on Teacher Quality as one of four top teacher training programs in the United States.

Putting one's faith into action is a hallmark of a Lipscomb education. The Serving and Learning Together (SALT) Program allows students to apply their knowledge and skills to specific service projects. Through this service-learning program, students serve the Nashville community and Middle Tennessee region through organizations such as Faith Family Medical Clinic, Morning Star Sanctuary, the Nashville Rescue Mission and Youth Encouragement Services. Lipscomb University was listed in the 2012 President's Higher Education Community Service Honor Roll that was released in Feb. 2013. This is Lipscomb University's sixth consecutive year to be listed among schools that show commitment to service-learning initiatives.

Opportunities for global engagement are available to Lipscomb students through a variety of study abroad programs and mission trips. Lipscomb offers study opportunities in China, Chile, England, Austria, France, Greece, Israel, Italy, Switzerland and many other locations. Each year more than 800 of our students, faculty and staff put their faith into action in a variety of humanitarian efforts. The goal is for every Lipscomb student to take part in a global engagement opportunity. Ask anyone who has participated, and you'll hear amazing stories of learning, faith and service. To learn more, visit globallearning.lipscomb.edu.

Beyond the classroom Lipscomb provides an active program of campus activities. The Bison athletics program is a vital part of campus life. Competing in the NCAA Division I as a member of the Atlantic Sun Conference, Lipscomb University continues to build on its tradition of success in athletics as we grow in competition at the highest level. Our women's basketball, men's baseball, women's softball and women's volleyball teams have advanced to the NCAA Division I national tournaments.

Lipscomb University is providing students with an educational experience that is valued and respected by local, state, and national constituencies. In the past eight years, the Lipscomb campus has been transformed by new construction, environmentally friendly renovations and landscaping totaling more than \$70 million. Lipscomb led the way for universities in Tennessee through its on-campus sustainable innovations when the Burton Health Sciences Building became the first LEED-registered academic building in the state and earned the gold-level certification. Lipscomb University was also selected as one of the country's most environmentally-responsible colleges to be included in the *The 2013 Princeton Review's Guide to 322 Green Colleges*.

Lipscomb University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404.679.4500 for questions about the accreditation of Lipscomb University.

Mission

Lipscomb University is a private coeducational institution whose principle focus is undergraduate education in the liberal arts and sciences, combined with a number of undergraduate professional and pre-professional fields, master's, and doctoral degree programs. Its primary mission is to integrate Christian faith and practice with academic excellence. This mission is carried out not only in the classroom but also by involvement in numerous services to the church and the larger community.

Objectives

Lipscomb University is committed to promoting Christian faith and practice:

- by requiring Bible classes for all students;
- by employing teachers who are firmly committed to the world view and lifestyle of biblical Christianity; and
- by providing specially designed programs, activities and worship experiences which strengthen the desire to be faithful, knowledgeable and mature Christians.

The university is committed to provide excellent educational opportunities through undergraduate and graduate programs:

- by introducing students to great thinkers and ideas of human history;
- by acquainting students with some of the significant accomplishments of humanity as expressed in the arts and sciences;
- by helping students develop an awareness and knowledge of diverse cultures;
- by assisting students in the choice or enhancement of a vocation and by equipping students for honorable professions;
- by fostering a lifestyle of economic responsibility and accountability;
- by empowering students with the ability to think critically and to communicate effectively in writing and in speaking;
- by encouraging students to develop a balanced approach to life in which they will incorporate activities that promote intellectual, physical, psychological, social and spiritual well-being.

The university is committed to serving the church, the community and the world:

- by providing opportunities for Christians to participate in events designed to strengthen the church;
- by enhancing awareness of humanitarian needs;
- by serving the immediate community and the world through participation in appropriate service activities; and
- by encouraging the development of socially responsible citizens.

Admission

Lipscomb University admits men and women who demonstrate the ability to succeed academically and who possess good moral character. A student desiring to enter must apply and furnish evidence of intellectual capacity and moral character.

Freshman Students

In general, applicants are expected to have followed a college preparatory course of study in high school. This track includes at least four units of English, two units of mathematics (preferably Algebra I and II), two units of natural sciences, two units of history/social sciences, two units in the same foreign language and two academic electives (selected from natural sciences, mathematics, foreign languages or social sciences). Applicants 18 years and older may be admitted with a GED.

We welcome your application and are excited about assisting you in enrolling at Lipscomb. To apply, follow these five steps:

1. Fill out an application form including essay. All blanks must be filled in, and the form must be signed by the applicant and the person responsible for payment, if applicable. The application may be mailed before the submission of the high school transcript, references, and the ACT/SAT scores.
2. Send in a \$50 application fee. Contact the admissions office for details.
3. Submit a transcript of high school credits. Students applying during their senior year may submit credits completed through their junior year.
4. Give a reference form (educational) to the individual listed on the application.
5. Arrange to take the ACT or SAT test and have the score sent to Lipscomb University. (Our institutional code for the ACT is 3956. The SAT code is 1161.)
6. Arrange an interview, either in person or over the phone, with the admissions office.

If acceptance is granted, three additional items must be submitted: a final high school transcript, a health form and a Student Consent to Release Academic Information Form (FERPA). All records must be filed in the admissions office and approved before a student can enroll.

Applicants who present an ACT composite score of 21 or higher (or SAT equivalent), a high school GPA of 2.5 or higher, an essay within the application and strong educational references and interview are generally admitted without conditions.

Applicants who do not meet all four criteria will be automatically reviewed, which in some circumstances may require admission through the Transitions Program or other conditions. Any student, regardless of acceptance status, who does not score a 20 or higher on the English portion of the ACT (or a 480 or higher on the SAT) is required to

take Developmental Seminar. Any student, regardless of acceptance status, who does not score a 21 or higher on the math portion of the ACT (500 or higher on the SAT) is required to take Introductory and/or Intermediate Algebra.

Appeal of an admission decision may be submitted in writing to the Office of Admissions. The university cannot accept the responsibility for a delay in the enrollment of an applicant submitting records later than two weeks prior to registration. The university reserves the right to reject any applicant at its own discretion. For any reason deemed sufficient, the university may require a medical examination, intelligence test or subject matter examination and may revise at any time the status given a student on admission. The provisions of this paragraph are subject to Lipscomb University's nondiscriminatory policy contained elsewhere in this catalog and will not be used in any way to violate that stated policy.

Home-schooled Students

Lipscomb recognizes the unique nature of home schooling and welcomes applications from home-schooled graduates. In general, a home-schooled student applying as a first-time freshman should follow the same application procedures as other freshman applicants. In lieu of a high school transcript, a home schooling record or transcript is required. If an educational reference is not available, a personal reference from a non-family member must be submitted.

Transfer Students

Lipscomb gladly accepts applications for admission from students who have attended other accredited institutions. Transfer students must follow, in general, the first three enrollment steps for freshman students. All college transcripts are required, as well as high school transcripts and ACT or SAT scores if the student is transferring with fewer than 60 semester hours. If an applicant is currently enrolled at another institution, a final college transcript will be required to validate admission. In addition, transfer students must be eligible to return to the institution previously attended. Transfer students who are admitted with a GPA below 2.0 will be placed on academic probation. Normally, courses with a grade equivalent to or exceeding a "C" will transfer.

Tennessee Board of Regents Schools. Lipscomb University will accept the general education requirements from Tennessee Board of Regents schools as meeting the general education requirements when one of the following exists:

- The student has completed all requirements for an A.S. or A.A. degree,
- The student has completed all the TBR general education requirements, or
- The student is completing one of the approved Tennessee Transfer Pathways.

Students who do not meet one of these options will have their general education course work approved for transfer on a course-by-course comparison.

Tennessee Transfer Pathway

Lipscomb University is a participant in the Tennessee Transfer Pathway. Tennessee Transfer Pathways (TTPs) are designed to help community college students plan for transferring to a Tennessee public university or select regionally accredited, nonprofit, Tennessee private colleges and universities to complete their baccalaureate degree. The TTPs also constitute an agreement between community colleges and four-year colleges/universities confirming that community college courses meet major preparation requirements. A student who completes all of the courses listed on a particular Transfer Pathway will earn an A.A. or A.S. degree at the community college.

The student is responsible for following the TTP exactly to ensure transfer of hours. A minimum grade of "C" is required for courses to transfer. Admission into Lipscomb University does not guarantee admission into a specific program.

Visiting Students

Admission as a visiting student is granted for only one semester. If the student desires to attend Lipscomb after that one semester as a visiting student, then he/she must reapply. A prospective student who has attended or is currently enrolled in another institution and desires to enroll in a course(s) at Lipscomb must:

1. Complete the application.
2. Submit the application fee.
3. Have an official transcript or official letter of good standing sent to Lipscomb from the last institution attended. For a course requiring a prerequisite, an official copy of the student's transcript must be sent to the admissions office.
4. If a specific course taken at Lipscomb is to be transferred to the degree-granting institution, permission must be granted from that institution.
5. Submit a health form.

International Students

International students are welcome at Lipscomb. They must file an international student application and meet the admission requirements of United States citizens. An entrance exam is not required, but the ACT or SAT is strongly recommended. In addition to materials requested of citizen applicants, international students must submit proof of English proficiency if their native language or education is not English. For unconditional admittance, a student must score at or above the following TOEFL scores: 550 on the paper-based test, 80 on the IBT or 213 on the computer-based test. An overall band score of 6.5 or higher on the IELTS exam will be accepted. Additionally, international students scoring 20 or above on the English portion of the ACT or 480 and above on the SAT will satisfy the proficiency requirement. Completion of the ELS Language Center's highest level (www.els.edu) is encouraged but one of the previously mentioned exams is required.

Also, students must demonstrate sufficient financial resources for four years of university study.

All applicants whose academic records are from schools, colleges and universities located outside the United States must provide a course-by-course report from an approved evaluation service. Application for admission will not be considered without having this detailed review on file. Applicants must contact one of the two services listed below and make arrangements for evaluation.

Lisanto International
Foreign International Credential Evaluation
P.O. Box 407
Auburn, AL 36831-0407
Fax: 334.745.0425
Email: lisanoINTL@aol.com
Web: www.lisano-INTL.com

World Educational Services
P.O. Box 01-5060
Miami, FL 33101
Phone: 305.358.6688
Web: www.wes.org

International students are required to pay in full for each semester before registering for classes. Also, international students are required to have health insurance to attend Lipscomb. For more information, contact the Office of Admissions by telephone at 615.966.1776 or 877.582.4766, by email at admissions@lipscomb.edu, by visiting international.lipscomb.edu, or by mail at One University Park Drive, Nashville, TN 37204-3951 USA.

Early Admission Students

Superior high school students may be admitted for regular university work. A student applying for early admission must submit an application, transcript, ACT or SAT scores, two references and a letter of recommendation from the high school principal or counselor. Each request for early admission is considered by the admissions office on a case by case basis.

Lipscomb cannot guarantee that credits earned in the early admission program will automatically transfer to any other institution. Each college/university reserves the right to determine transfer credit.

In some cases, students choose to bypass the senior year of high school and enter college. These students apply in the same way as other prospective first-time freshmen. Three additional items are required: a letter of recommendation from the high school principal or counselor, the high school principal's intention in writing to award the applicant a high school diploma upon completion of the student's first year at Lipscomb and a personal essay stating the reasons for desiring early admission to Lipscomb.

Notice of Nondiscriminatory Policy

Lipscomb University is a private Christian university open to any qualified student without regard to race, religion, sex, age, color, national or ethnic origin or disability. Lipscomb University complies with all applicable federal and state nondiscrimination laws and does not engage in prohibited discrimination on the basis of race, religion, sex, age, color, national or ethnic origin, or disability in the administration of its educational policies, programs and activities. This policy includes admissions policies, scholarships and loan programs, employment practices and athletic and other school-administered programs.

Required Documentation for Off-Site Learning Experiences

Off-site learning experiences (i.e. clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the time frame for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses will result in failure to complete the desired program of study.

Student Life

What do you want to become? How will you make a difference in this world? What does it mean for you to be truly successful? What do you treasure? What are your greatest dreams and highest aspirations? These are the kinds of big questions you bring with you to the college experience, and these are the kinds of questions Lipscomb's Student Development Team is committed to helping you answer. Our highest ambition is to equip our students to discover the person God created them to be and to prepare them to live out God's call on their lives with intentionality and purpose so that they can experience the joy of complete fullness and life in Christ.

Spiritual Formation at Lipscomb

The collegiate experience includes a process of formation—a journey of maturation and development that will play a major role in shaping our students' futures. This process of formation is inevitable, but movement toward the specific goal of Christian spiritual formation does not happen without an intentional plan. At Lipscomb University we embrace the end for which Paul labored: that "Christ be formed in you" (Galatians 4:19).

Spiritual formation, or growing in the likeness of Christ, cannot ultimately be required because it is based upon a personal decision and commitment. We welcome and invite

students who have not made this decision to join us on our journey, but we acknowledge the importance of everyone's freedom of choice. We ask that all students, however, recognize and respect the centrality of the Christian faith to Lipscomb's identity and mission.

Following is a partial list of the means for the pursuit of spiritual formation at Lipscomb: Bible classes; chapel; service projects, including service learning (SALT) experiences and classes; mentoring; mission trips; daily devotionals delivered electronically; dorm Bible studies; relationships with other students, faculty and staff; and special speakers and performers.

The mere presence of the activities listed above, however, does not guarantee meaningful results in the area of spiritual formation. A plan for spiritual formation in a university context must give attention to three realities:

1. the variety of students' backgrounds and learning styles,
2. the importance of encouraging active engagement rather than passive observation,
3. the need to move from required activities to internalized habits.

We seek to address each of these realities in our program of spiritual formation. Bible classes begin with the basics, taking students through the whole Bible and encouraging them to find their identity in relation to God's mission in the world. By the time a student reaches the junior or senior level, the goal is to incorporate one or more Bible classes into each academic area, demonstrating how to think and live as a Christian nurse, engineer, teacher, doctor or other professional. Worship times in chapel provide students with a variety of choices. On Tuesdays everyone assembles together to reflect and celebrate our overall sense of community in "The Gathering" in Allen Arena. On Thursdays students choose from several smaller venues that offer traditional, contemporary and contemplative worship styles. Chapel credits may also be satisfied by involvement in such activities as small group Bible studies, mission trips and service projects.

Simply sitting in a Bible class or a worship period does not produce spiritual growth. For that reason we strive to make these times as meaningful as possible in order to encourage participation, not just attendance. The greatest growth occurs, however, when students choose to go on a mission trip (as hundreds do each year), help feed the homeless, or in other ways live out their faith. An ever-growing array of such opportunities exists at Lipscomb, and those who choose to participate in them frequently find their lives transformed in the process.

We realize that we have our students for a limited amount of time. Once they leave Lipscomb they will not likely be in an environment in which they will be required to attend Bible classes or chapel. We seek to help them obtain knowledge, but also to equip and inspire them to pursue a lifelong path of spiritual formation.

Student Activities

The Student Government Association (comprised of 28 senators and four executive officers elected to serve for the academic year) partners with the Office of Student Development in providing opportunities for undergraduate students to get involved in various activities. Lipscomb graduate students work through the Graduate Academic Leadership Team in addressing campus concerns relevant to graduate student life.

Professional and Service Organizations

The Lipscomb family offers more than 70 groups and organizations in which students may be involved. The diversity of focus and interest provides avenues for all of our students to address their interests and attain a sense of acceptance and belonging. The major organizational groupings are: academic, professional, honor societies, music, drama, student publications, special interest, service and social clubs. Please consult the Student Handbook for a detailed listing.

Social Clubs

Approximately one in five of our students is involved in social clubs. These clubs are chartered to promote the spiritual mission of the school while providing avenues for social development on campus. Currently there are 12 social clubs overseen by the Office of Greek Life. The Interclub Council (ICC) and social club advisors play a vital role in working with the deans to provide leadership and direction for the clubs. Major club activities include athletics, Singarama, formals and a variety of service projects.

Residence Life

Lipscomb realizes the importance of providing clean, well-maintained residence halls for students who are required to live on campus. Unmarried students are required to live in one of the campus residence halls. Exceptions to the on-campus housing requirement are made for the following: students 21 years of age and older, senior students with 95 credit hours and students living at home with their parents in the Nashville area. Married students and students over 25 are not allowed to live in the campus residence halls. Exceptions must be approved by the Associate Dean of Student Life as indicated in the Student Handbook.

Lipscomb provides married student housing to those qualified married students who are receiving gift aid (all institutional grants and qualifying non-institutional grants) totaling a full grant-in-aid. The availability of this housing is extremely limited and those interested should contact the Office of Rental Properties at 615.966.6173 for further information.

Career Development Center

The Career Development Center facilitates the development process by which students become ethical professionals who are self-aware, engaged, resourceful, and ready to meet the demands of tomorrow's workplace. We are dedicated to providing professional development opportunities and connecting students and alumni to employers through both on and off campus recruiting.

Upon entering Lipscomb University, students may utilize the CDC's services and they are immediately granted an account in Experience (Job Board), our online internship and job posting website. All CDC services, including career counseling and career transition support, are available to alumni of the university at no cost as a part of a lifelong relationship between Lipscomb and its students.

Self-Assessment

The CDC also encourages students to utilize available personality and vocational interest testing given through the counseling center. Upon completion, individual career counseling sessions can be scheduled with CDC staff to further discuss the assessments in regards to the selection of a major or career path or the evaluation of job opportunities.

Occupational Exploration

All students are invited to career development events such as career exploration events and employer recruiting events. Throughout the semester, different professionals discuss their industry and network with students. Through exposure to various careers, students gain a greater understanding of the opportunities available to them after graduation.

Internships

Students are encouraged to participate in multiple internships to assist them in determining career fit and to gain valuable experience prior to graduation. So that students can easily identify valuable learning opportunities within their field of study, internship opportunities are pre-approved by each department prior to being posted on Experience. Experience is also utilized in maintaining a database of on- and off-campus, part-time and full-time employment opportunities.

Professional Preparation

Through academic partnerships, the Career Development Center offers students resumé and interview preparation, graduate school admission guidance and job search skills. Career networking and recruiting events are held on campus each semester to facilitate the process by which students connect with employers.

Counseling Center

A variety of counseling services are provided by the university's licensed professional counselors and graduate interns for students who need help with personal or family problems, academic issues, and vocational choice/choice of major, among other topics. Services are provided free of charge on a strictly confidential basis. The Counseling Center is located in the lower level of Elam Hall South. Normal hours are 7 a.m. to 6 p.m., Monday through Friday. Limited evening hours are also available. Appointments may be made online at counselingcenter.lipscomb.edu or by calling 615.966.1781.

Health Services

Health Services is located in the front, lower level of Elam Hall between the Counseling Center and the Campus Safety and Security office. Normal hours during the school year are 7:45 a.m. - 4:30 p.m., Monday through Friday, with shortened hours during the summer. The clinic is closed for holidays. The clinic is staffed by a nurse practitioner and a registered nurse.

Students at Lipscomb University can conveniently receive primary care for illnesses and injuries including testing, diagnosis, and prescriptions. Each semester undergraduate students can see the nurse practitioner three times under the student health fee and can pay for any additional visits if needed. Payment for prescription medications, imaging and laboratory services will be up to the student and may be billed to his/her health insurance plan. The Health Center does not currently bill insurance for in-house services. Health insurance is highly recommended for students and is required for international students. Allergy shot administrations, TB skin tests and many vaccinations are available for a fee for students, faculty and staff.

All students must complete a Student Health Record Form and submit it to Health Services before arriving on campus. The information requested includes a medical history, documentation of immunizations and tuberculosis screening. Students who have not submitted the Student Health Record Form will have a hold put on their registration until the form has been completed. This hold could prevent the student from registering for subsequent semesters. The state of Tennessee requires all students born after 1956 to provide proof of two measles, mumps and rubella (MMR) vaccinations or a titer showing immunity. All students born after 1979 must also have two varicella (chickenpox) vaccines or history of the disease which can be shown through a positive blood titer. The hepatitis B (HBV) series is required for all students, and the meningococcal vaccine (MCV) is required for residential students because of the increased risk of this disease with college-age students. If the student (or guardian for those under age 18) chooses to refuse the HBV or MCV after reviewing the information about the risk factor and dangers of each disease, he/she may sign a waiver refusing administration of the vaccines. All students must also have TB screening in the form of a skin test, blood test or risk factor questionnaire within the last year; further guidance is given on the TB Screening Questionnaire. Proof of treatment for any positive TB test must be included as well as a copy of a chest x-ray. Health profession students have additional requirements outlined by their respective schools or departments.

Athletics

Intercollegiate

Lipscomb University is committed to sportsmanship and fellowship as well as academic and athletic excellence. The Lipscomb University athletic program is an active member of the NCAA at the Division I level and is a member of the Atlantic Sun Conference. Lipscomb University competes in the men's intercollegiate sports of baseball, basketball, cross country, golf, soccer, tennis, and track and field. Lipscomb University women participate in basketball, cross country, golf, soccer, tennis softball, volleyball and track and field.

Lipscomb also offers the finest in athletic facilities. The 5,000-seat Allen Arena hosts Lipscomb basketball and volleyball, serves as home for chapel and houses the athletic department. Ken Dugan Field at Stephen Lee Marsh Stadium serves as home to our baseball program while Draper Diamond at Smith Stadium provides a magnificent setting for our softball program. In April 2010 the 2,200-square-foot Huston-Marsh-Griffith Tennis Center was officially opened, housing a pro shop with a retail store.

Intramural Sports

Intramural sports are a vital part of campus life. The Student Activities Center and intramural field opened in 1991. Activities offered in the fall include the annual home run derby, softball, fall golf scramble, co-ed volleyball and flag football. In the spring, activities include basketball, dodgeball, racquetball, ping pong and badminton tournaments, flag football, soccer, ultimate frisbee and spring golf scramble.

Throughout the year, various tournaments in basketball are offered such as a three-on-three, five-on-five and free throw/three-point shooting contests.

Team sport competition is divided into both independent and club leagues. The independent league is open to all students enrolled at Lipscomb, whereas the club league is open only to those students who are members of social clubs and who meet all eligibility requirements set forth by the Office of Student Life.

In addition to intramurals, free play recreation is offered. Students are encouraged to take advantage of the SAC and its facilities including two basketball courts, weight room, indoor running/walking track, aerobics room and four racquetball courts.

Student Growth

A student attending Lipscomb University should grow intellectually, spiritually, physically and socially. Lipscomb students should be honest and truthful in all matters; abide by campus regulations; respect and obey existing local, state and federal laws; respect private and public property; observe biblical standards of conduct; and respect the rights of others. Every student is expected to familiarize himself/herself with the Student Handbook and honor the rules and policies articulated within the handbook. Questions regarding student conduct and/or behavior should be directed to the senior vice president for student life.

A student may be requested by the provost or senior vice president for student life to withdraw from school at any time such action serves the best interest of the student and/or the university. The request may be based on factors which include, but are not limited to, conduct inconsistent with the ideals of the university, failure to do satisfactory class work, or failure to attend Bible class. When a student is requested to withdraw from school, his/her failure to do so may lead to dismissal or loss of credit. When a student is dismissed, that dismissal becomes a part of the student's permanent record.

Academic Integrity: A Community of Faith

Lipscomb University is a community of scholars and learners committed to the teachings of Jesus Christ. Our core values of Christlikeness, truth, excellence and service integrate our Christian faith with the practice of academic pursuits. As citizens of this community, students, faculty and staff share the responsibility for promoting a climate of integrity.

As a distinctively Christian university, Lipscomb encourages each member of the community to grow in Christ's image. The pursuit of truth is a constant goal of the Christian life and lays the foundation for lifelong integrity. In every facet of our work, we seek excellence in the pursuit of knowledge and the courage to make difficult choices even at personal cost. In our service in this community, our actions should reflect the second great command "to love your neighbor as yourself." This command compels us to respect others, to treat others fairly and honestly, and to assume personal responsibility.

The life of the Christian is built on the foundation of serving others and living in truth. A community built on these principles cannot tolerate cheating, lying, fraud, theft and other dishonest behaviors that jeopardize the rights and welfare of the community and diminish the worth of the academic integrity of the community.

The Academic Integrity Policy sets out broad principles. From these broad principles flow policies and practices for members of the Lipscomb University community. The Community of Faith Judicial Code and the Academic Integrity Policy can be found at academics.lipscomb.edu, in the Faculty Handbook, and in the Student Handbook.



Community Accountability- Whistleblower Policy

Lipscomb University is committed to providing all members of the university community, including students, faculty, staff, alumni, vendors and guests, with a safe and productive environment. If any member of the university community has reason to believe or reasonably suspect that the university or any of its agents is acting contrary to any applicable federal, state or local laws or regulations, or contrary to any established university policy, that person may report such action or activity without fear of reprisal or retaliation. Information regarding this policy is available through the Office of General Counsel.

Intellectual Property Policy

The university has a policy regarding intellectual property. This policy exists to encourage research and innovation, clarify ownership of intellectual property rights, create opportunities for public use of the university innovations and provide for the equitable distribution of monetary and other benefits derived from intellectual property. Copies of the full policy are available in the Office of the Provost.

Financial Information

	Per Semester	Per Year
Fall/Spring		
Tuition (block rate for 12-18 hours)	\$ 12,645	\$ 25,290
General Student Fee	1,050	2,100
Room and Board	<u>5,050</u>	<u>10,100</u>
Total basic cost for typical student	\$ 18,745	\$37,490

Basic Charges Per Semester for the Undergraduate Program*

Undergraduate tuition per semester	
Block tuition (12-18 hours).....	\$12,645
Part-time hourly rate (1-11 hours) per hour.....	1,055
Hourly rate (19 or more hours) per hour.....	.605
General Student Fee (per semester for 12-18 hours).....	1,050
General Student Fee (per hour for 1-11 hours).....	.88

* Charges for graduate programs are described in a separate catalog available from the Office of Graduate Studies.

Basic Charges Per Semester for Adult Degree Program

Tuition per credit hour	\$525
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Basic Charges Per Semester for Certificate of Accountancy Program

Tuition per credit hour	\$525
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Room and Board Charges

Fall or Spring	Cost per semester
Elam, High Rise, Fanning, Sewell or Johnson (traditional) double/triple occupancy.....	\$2,865
Elam, High Rise, Fanning, Sewell or Johnson (traditional) single occupancy.....	3,835
Johnson (addition) double/triple occupancy.....	3,145
Johnson (addition) single occupancy	4,115
The Village double occupancy	3,690
The Village single occupancy.....	4,660

Maymester, Junemester or Julmester

Double occupancy - per "mester" (excludes The Village).....	715
Single occupancy - per "mester" (excludes The Village).....	895

Summer - Full Term

Double/triple occupancy (June and July)	1,480
Single occupancy (June and July).....	1,840
The Village double occupancy (June and July)	2,430
The Village single occupancy (June and July).....	3,075

Summer - Term I or II

Double/triple occupancy (June or July) (excludes The Village).....	764
Single occupancy (June or July) (excludes The Village).....	944

Global Learning Room and Board

Global Learning Housing (Santiago, Bath, Vienna, etc.).....	\$3,690
Global Learning - Bison Stampede Abroad.....	2,310

Meal Plans (per semester)

(All students who reside in Lipscomb University residence halls are required to purchase a meal plan.)

Bison Stampede (14 meals a week with \$500 Dining Dollars)	2,310
Bison Herd (12 meals a week with \$600 Dining Dollars)	2,185
Bison Traveler (7 meals a week with \$650 Dining Dollars).....	1,985
Bison Four (Seniors only; 4 meals a week with \$500 Dining Dollars).....	1,355
Unlimited Freshman Experience (with \$425 Dining Dollars)	2,310
Unlimited Freshman Experience (with \$250 Dining Dollars)	2,110
Village Residents (\$900 Dining Dollars and \$250 Bison Bucks)	1,150

Note: Meal plans are valid for the current semester only; Dining Dollars will roll over from fall to spring semester if a spring semester meal plan is purchased. All Dining Dollars expire at the end of the spring semester.

Deposits and Fees

Traditional Undergraduate Student Enrollment Deposit.....	250
Advance Standing Equivalency Credit & Credit by Examination (per course)	
Evaluating and Recording, per course.....	70
Constructing and Administering Departmental Exam, per course.....	100
Art Supplies Fee	75
College of Education Student Teaching Fee	400
Dietetics Internship Fee	8,000
Food Labs Fee	75
Foreign Language Fee	35
Foundations of Business Course Fee	35
Global Learning Semester Abroad Fee	3,080
Graduation Fee.....	195
Housing Processing Fee	150
Lab Fees: Biology, Chemistry, Computing, Engineering, and Physics.....	95
Late Registration Fee	195
Transfer Advance Registration Fee.....	99
Nursing Program Fee	1,890
Private Music Instruction for credit (one half-hour lesson per week, per semester)	
in addition to tuition (non-refundable after first week)	360
Private Music Instruction for credit (two half-hour lessons per week, per semester)	
in addition to tuition (non-refundable after first week)	710
Private Music Instruction not for credit (one-half hour lesson per week, per semester)	
(non-refundable after first week)	530
Private Music Instruction not for credit (two half-hour lessons per week, per semester)	
(non-refundable after first week)	930
Returned Check/Electronic Payment Fee	30
Technical Review Fee (Ed.D.)	100
TouchNet Monthly Payment Plan Enrollment Fee (per semester).....	60
Transcript Fee.....	5
Undergraduate Application Fee.....	50
Withdrawal Fee.....	195

Note: Lipscomb University reserves the right to adjust any fees at any time before the charges are incurred by the student.

Payment Options

Financial arrangements for all student charges should be made before classes start based on the published dates: Fall - Aug. 1 | Spring - Dec. 1 | Summer - May 1.

To meet the financial needs of our students and their families, Lipscomb offers two payment options. Students who have not designated one of the following two payment options will not be eligible to attend classes:

I. Monthly Payment Plan

Lipscomb University has teamed with TouchNet to offer monthly payment options that allow students to pay semester expenses with equal monthly payments ending in Oct. (for fall) or March (for spring). The plans have a non-refundable enrollment fee of \$60 per semester.

II. Full Pay

Under this plan the entire balance (less any verified financial aid) is paid before classes begin based on the published dates. Students may pay online through TouchNet at my.lipscomb.edu. Payment options can be found by going to “My Account” in the “My Balances” section, which is also Step 4 in the registration process. Payment can also be made by cash or check through the cashier window.

Note: It is the student’s responsibility to make arrangements for all financial aid, outside scholarships, loans and payments prior to the beginning of the term. When calculating your full pay balance, do not deduct the estimated work study award.

Financial Responsibility

Registration at the university is considered a binding contract for the entire term. Many commitments of the university are based upon the enrollment anticipated at the beginning of the term.

Students are not permitted to register for classes, receive transcripts or graduate until all financial obligations to the university are satisfied.

Past due accounts are subject to interest at 1.5 percent per month (18 percent annually) until the balance is paid. The university will use every reasonable means to collect past due balances, including collection agencies. Students are responsible for reimbursing the university for the fees of any collection agency, which may be based on a percentage at a maximum of 33.3 percent of the debt, and all costs and expenses, including reasonable attorney’s fees incurred in such collection efforts. The student is responsible for informing the registrar’s office of any change of address.

Business Office Holds

Students who have not met their financial obligations will be placed on a Business Office hold. Students on a Business Office hold are not permitted to register for classes, receive transcripts or graduate.

Refund Policy

Credit Balances

Any credit balance on a student account resulting from Title IV funds will be refunded no later than 14 days after credit occurred. Direct deposit is the preferred method for refunds. Bank account information can be set up through TouchNet on the eRefunds tab.

Refunds

I. Tuition - Refunds will be calculated based on the official date of drop or withdrawal as defined below.

Fall, Spring, Maymester, Junemester, Julymester, Wintermester, short summer terms, summer full session and Adult Degree Program tuition refund periods:

- 100 percent refund must drop or withdraw before the end of the equivalent of two weeks of class
- 50 percent refund must drop or withdraw before the end of the equivalent of four weeks of class
- No refund of tuition after the fourth week of class
- Refunds for non-traditional meeting times are based on the schedule above using equivalent weeks of class time rather than calendar weeks. For example, in a three-credit-hour class, 150 minutes of class time equals one week.

II. Room Charges

Students who withdraw from the university on or before the end of the first week of class will receive a full refund of room charges.

- If a student officially withdraws on or before the end of the fourth week, a 33 percent refund of room charges will be credited to the account. To be eligible for the room refund, the student must return the student I.D. card, remove belongings from the room and follow check out procedures. (Please refer to “Official Withdrawal” section.)

Note: Students enrolled in non-traditional terms will receive a refund of 33 percent of dorm charges if officially withdrawn on or before the first quarter of the term.

- Students who choose to move off campus but fail to notify the housing office are not eligible for refund of dorm charges, unless the student is forced to leave the dorm for one of the following reasons:
 1. Medical reasons confirmed in writing by a licensed physician. A prorated amount will be determined based on the date received and accepted by the housing office.
 2. Death of immediate family member.
 3. Extenuating circumstances affecting military personnel.

III. Refund of Meal Plan Charges

Only meal plan selections cancelled prior to the first day of classes will be fully refunded.

Dropping Courses

During the official drop/add period, students are able to drop or add online. After that time, a Drop/Add Form must be completed and accepted in the registrar's office in order to be official. The official drop date will be the transaction date indicated online or the date the Drop/Add Form is accepted in the registrar's office.

Adding Courses

The final day for adding classes (fall and spring) is the fifth class day. The final day to add during the full summer session is the fourth class day, and for summer terms, it is the third class day. Accelerated Adult Degree Program classes, as well as Maymester, Junemester and Julymester term classes, must be added before the second class meeting. No reduction in tuition is provided for courses added at any time during the semester. Before adding or dropping classes, students should ensure that they understand how the course load changes will affect their financial account.

Official Withdrawal

- Students desiring to **officially withdraw** from the university must obtain a Withdrawal Form from the registrar's office and supply all requested information and **required signatures**.
- The completed Student Withdrawal Form and the student I.D. card must be received in the business office before an adjustment can be made to the student's financial record.
- The date of official withdrawal from the university will be based on the last verifiable date of attendance.
- The deadline for official withdrawal from the university is the last day of classes prior to the final exam period of each semester.
- Lipscomb charges a withdrawal fee of \$195.

Students understand that withdrawal, suspension or probation does not result in reduced charges or additional credits on the student bill.

Financial Aid

The financial aid office coordinates the awarding of all financial assistance. The primary purposes of the aid program are to provide financial assistance to students who without aid could not attend the university and to reward students who have achieved excellence in their previous academic work or in areas of performance.

Besides offering its own institutional aid to students, Lipscomb participates fully in federal and state aid programs. The aid available includes scholarships, grants, loans and employment.

The financial aid office presents to each eligible applicant an award package which may be funded from several sources. Because funds may come from many sources at various times, over-awarding sometimes occurs. If a student is inadvertently over-awarded according to either federal or institutional

guidelines, adjustments will be made in the award. Please note that your institutional aid may be reduced or canceled at any time during the year if it is deemed necessary.

Lipscomb University makes every effort to use institutional resources wisely. Consequently, we must limit the institutional gift aid provided to students based on living arrangements and award packages. Lipscomb University follows a direct cost policy for all students. Non-institutional gift aid such as Title IV funds, state grants and outside scholarships will be applied to the student account first. Institutional aid is always applied last. If an award package is created before additional aid is received from outside or institutional sources, the package will be updated as described above which could result in reduction of institutional funds. If a student has a credit caused by institutional aid and outside scholarships, the student is not eligible for a refund. The institutional aid will be adjusted down to remove the credit.

Lipscomb makes every effort to use institutional resources to build its campus community. If an on-campus student has a credit caused by institutional aid and/or other gift aid in conjunction with a federal Pell grant, the student is eligible for a refund up to maximum Pell. Off-campus students are not eligible for this refund. A meal plan cannot be added to an off campus student's account and be covered by an institutional credit.

In a credit situation, before institutional aid is adjusted down, the student is entitled to an up to \$600 per semester book voucher (required books only), except where the scholarship states that books are not covered, e.g., National Merit finalists, athletics, veterans, etc. Institutional funds are provided for normal, required expenses at the university. Optional fees and deposits, such as (but not limited to) Global Learning, traffic fines, health center charges, private lessons and housing are not eligible to be covered by institutional and/or future outside aid.

Title IV loans such as Stafford, PLUS or Perkins are refundable. The refund cannot exceed the amount of the loan.

For employees, please review the Staff Handbook for guidelines regarding employee tuition discount and the direct cost policy.

The Department of Education requires the university to set a cost of attendance (student budget) based on the student's program of study and living arrangements. This means that students living on-campus and off-campus will have different budgets. (Student budgets include tuition, fees, room, board, books and supplies, personal expenses and transportation.) Student budgets for off-campus students are lower than student budgets for on-campus students. Therefore, if a student moves off campus during any semester, both loan eligibility and gift aid may be significantly reduced. Prior to making a change in living arrangements, students should contact the financial aid office FIRST to determine the potential impact to their award and student budget. important note: For students who are from Tennessee and qualify for the HOPE scholarship, this state award is inclusive of any full tuition scholarship, such as the Community College Trustee Award, if the student lives off campus. Also, students who decline the Tennessee HOPE scholarship cannot have these funds replaced by equivalent funds from other institutional sources.

Therefore, if the student declines the HOPE scholarship, the full-tuition scholarship will be reduced accordingly.

In general, university funding is described below under the heading of Scholarships; Funds from government (and other) sources are designated “financial aid.”

Scholarships

Institutional grants (often called “scholarships”) are given on two bases: merit and need. Any student accepted for admission to the university must file a Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov to be considered for both need and merit aid provided by the university. Any student who files a FAFSA, listing Lipscomb’s Federal Title IV Code (003486), is automatically considered for need-based federal and state aid.

Institutional Merit-Based Scholarships

General information by enrollment status:

Freshmen. Academic scholarships for first-time freshmen are determined primarily by ACT/SAT.

- Additional ACT/SAT scores will not be used for scholarship determination beyond the first day of classes in the student’s freshman year.
- Other scholarships for freshmen are performance awards in art, athletics, drama and music. These awards are determined by the specific department.

Transfers. Academic scholarships for transfers are awarded according to college GPA. A minimum GPA of 3.0 is required. Students who have enrolled full time at another college or university for one semester or more are considered transfer students.

Continuing Students. Lipscomb students can renew the scholarships they receive at entry. However, superior academic performance at Lipscomb does not allow for an increase in the award.

Graduate Students. Graduate students may qualify for scholarships, tuition grants or assistantships, depending on the field of study. Please refer to the Graduate Catalog for further information.

Visiting. No aid, including scholarships, is available to students who do not seek a degree, licensure or certification.

Returning Students (Lipscomb being the initial school as a first-time freshman).

- The initial-entry scholarship will not be offered if the student’s intention was to withdraw from Lipscomb and enroll in another school for a semester or more as a regular student (not a visiting student). Students taking less than full-time summer classes while at home for summer break are excluded from this policy. As a general rule, leaving Lipscomb in the fall or spring term to enroll in another college or university will result in transfer student status upon return.

- Students away from Lipscomb for more than one semester will be awarded at the transfer scholarship scale, based on the most recent Lipscomb GPA, not to exceed the value of the current Lipscomb academic scholarship.

Second-Degree Students. No institutional aid available. May qualify for federal aid.

Merit Aid

National Merit, trustee, presidential, provost, dean, Bison Achievement, Phi Theta Kappa, National Society of Leadership and Community College Award. These awards are given to first-time freshmen, transfers and continuing students. Details for incoming students are available on the financial aid website.

Transfers. A number of renewable scholarships are available to community college transfer students and Phi Theta Kappa members.

Continuing Students. Academic scholarships given to entering students continue if the students meet renewal requirements.

Adult Degree Programs. Adult Degree students are eligible for merit-based scholarships. Applicants should submit their requests to the financial aid office. (A scholarship request form is available in *myLipscomb* under Lipscomb Scholarship Forms.)

Graduate Students. All graduate students may apply for need-based aid by filing a FAFSA. Some graduate areas offer unique merit assistance through the individual graduate program office:

- The M.B.A. program has a limited number of academic scholarships and assistantships.
- The education program offers a few scholarships and assistantships and makes available a 40 percent tuition grant to teachers at schools associated with the Church of Christ and offers an In-Service Scholarship (26 percent discount) for other currently employed full-time teachers and/or administrators.
- The Bible program provides a graduate tuition discount for all qualified students. Contact the Bible department for details.
- Counseling and psychology offers a limited number of assistantships.

Vision Award

These are awarded to entering freshmen who can make a positive contribution to the diversity of the student body. The award is \$1,000 per year and is good for 126 attempted hours. The student is required to complete and application, take a full-time load per semester, and must maintain a 2.0 GPA. The student must be a U.S. citizen or permanent resident, eligible to file a FAFSA.

International Student Grant

Incoming international students receive a 50 percent tuition grant if the student lives on campus. This award is not stackable with any other aid. Students who live off campus qualify for a 33 percent tuition grant. Exclusions apply. Contact the international admissions recruiter for details.

Special Awards

These are made primarily to entering freshmen based upon the following criteria.

Fanning-McInteer Scholarship Fund. This fund is designated for female students only. In order to qualify, one or both of the parents of the applicant must be deceased. Eligibility is based on need, so the filing of a FAFSA is required. The application deadline is May 1. For information contact the financial aid office.

Cultural Diversity Teacher Training Program Scholarship. These scholarships are awarded to minority students who seek an initial teaching license through Lipscomb's professional education degree program. The value of a scholarship is up to \$5,000. Applicants should contact Lipscomb's Office of Teacher Education for information about application procedures and deadlines. Awards are made by an applicant selection committee.

Outside Scholarships. There are outside scholarship opportunities available to Lipscomb students. Application and requirements for these scholarships are available online at financialaid.lipscomb.edu.

Performance Scholarships

In addition to merit aid based upon academic achievement, Lipscomb also offers merit aid based upon excellence in various areas of performance by students. Performance scholarships are made primarily to entering freshmen by the appropriate departments. Examples include music, art, athletics, drama and communication.

Art. Scholarships are available to students on the basis of talent demonstrated by a portfolio of the student's work. Recommendations are made by the chair of the department of art. Contact the department of art for further information.

Athletics. A limited number of athletic scholarships are available for student-athletes. Athletes awarded \$12,000 per year or more must file a FAFSA before any athletic aid will be applied to the student account. Student-athletes must satisfy eligibility requirements established by Lipscomb and by the NCAA to be eligible for athletically related performance-based aid. For specific information contact the Office of Athletics, Lipscomb University, Nashville, Tennessee 37204-3951.

Communication. Scholarships are available for students proficient in journalism and mass communication. Preference is given to candidates who have been enrolled for at least one semester. The chair of the department of communication recommends the recipients.

Music. Applicants with proficiency in vocal and/or instrumental music may apply for scholarships awarded for past achievements and for audition performance. Contact the department of music for spring audition dates and other departmental requirements.

Student Government Association. A limited number of scholarships are available to student government officers. Candidates must be duly elected and meet established criteria. Contact the Office of Student Life for information related to Student Government Association and these awards.

Other. Various other performance-based aid may be established from time to time.

CCCU Tuition Waiver Exchange Program

Lipscomb participates in the Council for Christian Colleges and Universities (CCCU) tuition exchange program. Students enrolled in the Doctor of Pharmacy degree are not eligible. The CCCU discount cannot be combined with any other institutional aid. Contact the financial aid office for details.

Institutional Need-Based Scholarships/Grants

Freshmen, transfers, continuing students and graduate students have the same requirements for need-based aid. A FAFSA must be filed to be considered for need-based aid.

Need Aid Details by Fund

"Memorial" is the inclusive term for need-based aid at Lipscomb. Memorials are of two types: general and designated. A general memorial comes from the general funds of the university; the designated memorials consist of restricted scholarship funds set up in memory of individuals. After a student receives a memorial, he/she is told from which designated memorial all or part of the award is derived. Thank you notes to donors are required of students who receive Lipscomb memorials. No credit for the memorial scholarship will be given until the note is written.

The designated memorials are numerous and usually awarded on the basis of need; thus, the filing of a FAFSA is required. Some award decisions are made by select groups. Most memorials are awarded by the financial aid office. Due to a limited amount of funds, memorial grants will be adjusted when other institutional aid is added.

- I. Some memorials have definite instructions from contributors concerning those to whom the awards should be given. Others are available to any student with need.
- II. Memorials exist for majors in art, Bible (graduate and undergraduate), biology, business, chemistry, dietetics, English, Greek, history, journalism, consumer sciences, physical education, pre-med, pre-nursing, social work and speech, among others. A few memorials state donor preferences for recipients who are from specific geographic regions, for minorities or for those who participate in athletics.
- III. Four memorial loan funds exist and are listed under "Memorial Loans Which Must Be Repaid."

The university is grateful to those who have contributed and are contributing to these scholarships. We especially appreciate those whom they honor.

Endowed memorial fund names are as follows:

Adams Christian Trust Scholarship
 Akin, Grace Woodruff Memorial Scholarship Fund
 Alexander, B. and B. Scholarship Fund
 Alsup, Jane Elizabeth Scholarship
 Alumni Veterans Scholarship
 Anderson Family Mission Fund
 Andrews, Sarah S. Scholarship Fund
 Arnold Good News Teachers Training Scholarship
 Arnold, Lloyd N. Memorial Scholarship Fund
 Ausbrooks, Nora Scholarship Fund
 Baker Expository Preaching Scholarship
 Baker, Arthur/Opal Preaching Scholarship
 Baker, Arthur/Opal Education Scholarship
 Baker, Arthur/Opal Nursing Scholarship
 Barber, Heather Knox Nursing Scholarship
 Barlar, E.C. Scholarship Fund
 Barr Kappa Chi/Pre-Med Scholarship
 Batey, Irma Lee Voice Scholarship
 Batey, Irma Lee Scholarship Fund
 Baxter, Wanda & Batsell B. Scholarship
 Beaman Scholarship
 Beamer, Pat Scholarship Fund
 Beasley, T.O. (Bunt)/ Gladys Mays Scholarship Fund
 Bellwood Church of Christ Fund
 Bennett, Dr. Lynch Memorial Scholarship
 Bennie, Nancy and the Bennie Family Endowed Nursing Scholarship
 Berry Family Endowed Scholarship Fund
 Berry, Sue English Scholarship
 Bloomingburg, Roy/Berta Memorial Scholarship
 Bohannon, Byrd/Eva Scholarship
 Bohannon, Sallie Draper Scholarship
 Boone, Pat/Shirley Scholarship
 Boyce, Fessor Tennis Scholarship
 Boyd/Byers Scholarship for Varsity Athletics
 Boyd-Erwin Scholarship Fund
 Brackett, Joyce Educational Scholarship Fund
 Bradley Sr., Dr./Mrs. Donald Scholarship
 Bramlett, Kent Memorial Fund
 Breeden, Kyle Scholarship Fund
 Brewer, Barry Golf Scholarship
 Brewer, Charles R. Memorial Scholarship/Preaching
 Bromley, Sarah W. Scholarship
 Brothers & Wiser Scholarship
 Brumit, Alton/Rachel Scholarship
 Briscoe, Daisy Endowed Scholarship Fund
 Bryan, Albert & Lillian Scholarship
 Bryan, Ralph E. Scholarship Fund
 Buford, W./Lorene S. Hooper Business Scholarship
 Buford, W./Lorene S. Hooper Chemistry Scholarship
 Buford, W./Lorene S. Hooper History Scholarship
 Burnett, Mary Scholarship Fund
 Burton, Lillie Armstrong Scholarship
 Burton/Keeble Scholarship
 Butcher, Jan Memorial Scholarship Fund
 Butler, Martha Ellen Scholarship
 Button, Elizabeth & James Memorial Scholarship
 Byers, James R. Scholarship
 Carol Lynn Hall Memorial Scholarship
 Carter, Margaret Home Economic Scholarship
 Carter, J. Howard Scholarship
 Carter, Lois Scholarship Fund
 Carter, Wilford Newton and Clara McDaniel Scholarship Fund
 Carvell, Mr. and Mrs. G.F. Memorial Preaching Scholarship
 Chumley, Mildred Roger Memorial Scholarship
 Chunn, Gladys Scholarship Fund
 Clark, Joe/Mildred Scholarship Fund
 Clark, Lysaden Endowed Music Scholarship
 Class of '52 Endowed Scholarship
 Clausel, James E. Family Scholarship
 Clayton, Fred and Grady Hert Endowed Scholarship
 Cobb, Thurman & Maizie Scholarship
 Cochran, Mr. and Mrs. Obie & Willie Scholarship
 Coleman, Ellen Snell Scholarship Fund
 Coleman, Dr. and Mrs. Michael Scholarship Fund
 Collins/Campbell/Holden Endowed Scholarship Fund
 Collins, G. Willard Scholarship
 Connelly, Capt. Allen N. Memorial Scholarship
 Conner, Durwood Scholarship
 Cornette, Arline Scholarship Fund
 Costello, Jean G. Scholarship
 Couchman, Elizabeth J. Fund
 Crisman Scholarship
 Crittenden Dr. Church of Christ Scholarship
 Crowe Horwath Scholarship Fund
 Cullum, Gregory E. Scholarship
 Curd, Ed/Charlene Scholarship Fund
 Dailey, Clarence Scholarship
 Darragh Second Mile Scholarship Fund
 Davis, Allene Memorial Scholarship
 Davis, W. Lipscomb & Adelaide Shull Davis Scholarship Fund
 Davy, Joey Scholarship Fund
 Deery, Matthew Memorial Scholarship Fund
 Deloitte and Touche Scholarship Fund
 Demonbreun, Bryan Scholarship Fund
 Dennison, Marshall & Jean Scholarship
 DeRosette/Lyles Scholarship
 Derryberry, Dorris/Mary Lee Business Scholarship
 Discher/Morrison Scholarship
 Dobbs, John-Adam Cockerham Scholarship
 Doster Scholarship for Engineering
 Draper, Bob Memorial Athletic Scholarship
 Draughton Foundation Scholarship Fund
 Dreher, Chuck Ministers' Scholarship
 Dreher, Chuck Women's Scholarship
 Dugan, Ken Athletic Scholarship
 Dugan, W.F. Memorial Baseball Scholarship
 Duncan, Bruce & Nancy Tennis Scholarship
 Duncan, Jamison M. Scholarship Fund
 Dunn, Deb/Johnston, Allene Scholarship
 Durden, Dr. John D. Scholarship
 Durrington Church Ed Adm Scholarship
 Dye, Lucy Scholarship Fund
 Edgin, Susan Memorial Scholarship
 Elrod, Billy C. Preacher's Scholarship Fund
 England, G. David Scholarship Fund
 Estes, Judith K. Distinguished Valedictory Scholarship
 Etter, Barbara N. Veterans Scholarship Fund
 Eubanks, Buford & Dot Scholarship Fund
 Evins, Edgar Scholarship
 Ewing, Robert C. Engineering Scholarship
 Ewing Trust/Protestant Orphan Fund
 Excellence in Entrepreneurship Endowed Scholarship Fund
 Family Emphasis Scholarship
 Fanning-McInteer Scholarship Fund
 Fetner, David Scholarship Fund
 Flowers, Harold Memorial Scholarship
 Flowers Miller, Katherine Fine Arts Scholarship
 Floyd, Harvey Biblical Languages Scholarship
 Forest Hills church of Christ Scholarship Fund
 Fox, Dr. Jesse/Maude Scholarship
 Fox, John Michael Pre-Med Scholarship
 Fry, John S. Scholarship Fund
 Fulmer, Clyde/Constance Scholarship
 Gainer, JM Scholarship Fund
 Gamble, Charles (Chuck) Ray Jr. Scholarship Fund
 Gann, Richard Scholarship Fund
 Garrett, Marie Endowed Scholarship Fund
 Gaw, Cleavis/Pearl Scholarship
 General Scholarship Fund
 Gentry, Bill & Treva Scholarship
 Georgia Scholarship Fund
 Giles Morgan Carter Memorial Scholarship
 Goetz/Goodpasture Scholarship Fund
 Golden Circle Scholarship Fund
 Graves, George Scholarship
 Graves, Sherrye Marie Scholarship
 Graves, John A. Scholarship Fund
 Graves, John P. Scholarship Fund
 Graves, Opel M. Scholarship Fund
 Grayson, Gertrude/MG Scholarship
 Greene, Angie Memorial Scholarship
 Griffith, Lynn & Dianne Athletics Scholarship Fund
 Hardaway, Della H. Scholarship
 Hardcastle, Dora Wilks Memorial Scholarship Fund
 Hardison, Catherine & J O Scholarship
 Harris, George/Frances Scholarship
 Harris, Theo Scholarship Fund
 Harvey, Kendal Kevin Scholarship Fund
 Harwell Family Scholarship Fund
 Hatchett, Fred Scholarship for Education
 Hayes, Thomas and Linda P. Endowed Scholarship Fund
 Hazelip, Woodrow & Pauline Endowed Scholarship Fund
 Henderson, Mary C. Scholarship Fund
 Hester, Foy B. and Lorene E. Scholarship
 Hillin, Katie Scholarship Fund
 Hines, John & Ada Scholarship Fund
 Hodges, Paul Scholarship Fund
 Hodgson-Carruth, Trish Endowed Scholarship Fund
 Holder, James and Nell Scholarship Fund
 Holley, Bobbie Lee Gault Scholarship Fund
 Hollins, Edgar and Ida Belle Memorial Scholarship Fund
 Hooper, Virginia L. Memorial Scholarship Fund
 Hubbard, Steven M. Memorial Scholarship Fund
 Hunt, Tappie L. Scholarship Fund
 Hunter, Miles S. Scholarship Fund
 Hunter, Ronnie & Barbara Scholarship Fund
 Hutcheson, John and Mary Nelle Art Scholarship
 Hyche, Henry and Verda Scholarship Fund
 Ingram Scholarship Fund
 Jackson, Ira S. and Hazel Scholarship Fund
 Jamison Scholarship Fund
 Jenkins, William W. Scholarship Fund
 Jernigan, May Ministerial Scholarship
 Johnson, Helena "Grandma" Scholarship Fund for Bible Majors
 Kerce, Robert H. Mathematics Scholarship Fund
 Kieswetter, Bobby Endowed Scholarship Fund
 Kinkaid-Rankin Endowed Scholarship Fund
 Kitrell/Dennison Accounting Major Scholarship Fund
 Knapp, Robert H. Endowed Scholarship Fund
 LaVelle, Elizabeth Memorial Scholarship Fund
 Lavender, David E. Missions Scholarship Fund
 Leathers, Harry Scholarship Fund
 Leathers, Sally Lou Scholarship Fund
 Leavell, William A. and Frances H. Scholarship Fund
 Leaver, Walt and Carol Scholarship Fund
 Lipscomb, Dr. John Paul Scholarship Fund
 Lipscomb, Virginia C. Scholarship Fund
 Living Water Scholarship
 Loren, James and Katie Scholarship Fund
 Lovell, Gordon Aubrey Scholarship Fund
 Lunn, Sara M. Scholarship for Church Workers
 Lunn, Sara M. Scholarship for Preachers
 Lyle, Rebecca Scholarship
 Mabry, Addie Mae Scholarship Fund
 Maiden, Lewis/Leota English Scholarship
 Maiden, Lewis/Leota History Scholarship
 Mann, George Memorial Fund
 Marsh, Kathy Scholarship Fund
 Masterson, Jack/Stella Scholarship
 Matheny, Mike Memorial Scholarship Fund
 McAlistar, Sara Scholarship
 McBride, John/Elna Scholarship
 McCaleb, J. M. Mission Scholarship
 McDowell, Clarence Scholarship
 McFarland, Sam Scholarship
 McGill, James/Gladys Scholarship
 McGuire, Willie H. Scholarship
 McMeen, Jim Memorial Scholarship
 Meador, Mrs. Margaret Appreciation Fund
 Meador, Prentice Sr. Memorial Scholarship
 Meador, Prentice Jr. Memorial Scholarship
 Melton, Sarah Lillian Robinson Memorial Scholarship Fund
 Mid-Town Church of Christ Scholarship
 Miles, Mrs. K. B. Scholarship
 Miller, Clyde M. Scholarship Fund
 Miller-Huff Memorial Scholarship
 Mitchell, V. O. and Nina Scholarship
 Moore, A.L. & Jayne Scholarship Fund
 Moore, Gerald Endowed Scholarship Fund
 Moore, JP & Ruby Memorial Scholarship
 Moore, Mrs. Wade Scholarship Fund
 Morgan, L & A Scholarship Fund
 Morrell, Stan Athletic Scholarship
 Morris, Ted Scholarship Fund
 Nance, Ralph/Betty Scholarship
 Neal, James E. Endowed Scholarship
 Neely, Louise Lipscomb Scholarship Fund
 Neely, Ruth Peek Scholarship Fund
 Neely, Shannon Christian Example Scholarship Award
 Neil, David Scholarship — Athletic
 Neil, Martha Walker and Robert G. Fine Arts Scholarship Fund
 Nelson Grandchildren Scholarship Fund
 Nelson, Byron Golf Scholarship
 Nevins, Mary Scholarship Fund
 Nikolaus, Marvin Family Mathematics Scholarship

North Central Alabama Scholarship Fund
 North, Ira Scholarship Fund
 North, Ira & Avon Endowed Scholarship Fund
 Northside Church of Christ Scholarship Fund
 Nowers, Sue Scholarship Fund
 O'Neal, C. H. & Nell Scholarship
 Olive, Jim & Beth Endowed Scholarship Fund
 Outhier, Edmond Encouragement Award
 Oz, Alexander/ Elfrienda Scholarship Fund
 Oz, Robert Scholarship for Preachers
 Paul, Josephine Scholarship
 Peach, Patsy Faye Welch and Edward Louis Memorial Scholarship Fund
 Perry, Linda Mims Scholarship
 Perry, Will Nursing Scholarship
 Peugeot, Richard & Mary Ann Engineering Scholarship
 Peugeot, Walter & Elizabeth Scholarship for Preaching
 Pickett, Marvin Gray Scholarship Fund
 Pigg, Jody L. Accounting Major Scholarship
 Porter, Judith C. Women's Scholarship
 Potter, Sallie Christian Scholarship Fund
 Poulsen, Elizabeth Walters Scholarship Fund
 Powell, Mr. & Mrs. Lee Scholarship Fund
 Powell, Condra Scholarship Fund
 Primm, Sylvia Kennedy Scholarship
 Putney, James T. Scholarship
 Ragsdale, Evelyn Potts Scholarship Fund
 Rainey, John L. Scholarship Fund
 Raulston, Ed/Kate Scholarship
 Raulston, Lucy Crownover W. Scholarship
 Ray, Jack L. Scholarship Fund
 Ray, Fred/Ailene Scholarship
 Reid Avenue Church of Christ Scholarship
 Renick, Robert Scholarship
 Riden, James D. Memorial Scholarship Fund
 Riggs-Lantz Scholarship Fund
 Rives Family Scholarship
 Ronald Reagan Political Science Scholarship
 Ross, Elizabeth Troyan Memorial Scholarship
 Rudy, Dan/Jeanette Scholarship Fund
 Sanders, Joe & Evelyn Scholarship
 Sanders/Morton/Journey Scholarship
 Seals, Ida Mae Scholarship
 Sells, Barnard D. Scholarship Fund
 Shackelford, RP/Kathryne Memorial Scholarship
 Shannon, Scott Memorial Scholarship
 Share, JJ Memorial Scholarship
 Shelton, Patsy/WM Scholarship Fund
 Sherrow, Herbert/Katherine Scholarship Fund
 Simpson County, Kentucky Scholarship Fund
 Smiley, William M. Scholarship Fund
 Smith, Doug Scholarship
 Smith, Erin Arnold Endowed Scholarship Fund
 South, Celia Scholarship Fund
 Spann, Edwin W. Endowed Scholarship
 Speed, Gentry and Mary Hunter Fund
 Stafford, J. B. Scholarship
 Staggs, William/Betty Memorial Scholarship
 Stanton, William A. Scholarship
 Stephens Scholarship Fund
 Stewart, Roy/Irene Scholarship
 Stinson, Homer Carlton Scholarship for Preachers
 Stovall, EW/Johnie Scholarship

Stringfellow, Ruth and Harvey Scholarship Fund
 Stroop, Dr. Ridley Memorial Scholarship
 Stutzman, Joy Memorial Scholarship
 Swaim, Elsie M. Memorial Scholarship Fund for Preachers
 Swang, Axel W. Business Scholarship
 Swann Scholarship Fund
 Sweeney, Lawrence Scholarship Fund
 Sweeney, Herb Memorial Scholarship
 Tackwell, Cathy Memorial Fund
 Theftord Endowed Scholarship Fund
 Thompson, Johnny Scholarship
 Thornthwaite Memorial Scholarship
 Thweatt, L. Poyner Business Administration Scholarship
 Tinsley Graves, Mary Scholarship Fund
 Tolle, James/Kathryn Scholarship
 Transouth Educational Foundation Scholarship Fund
 Trimble, John/Mittie Scholarship Fund
 Tucker, JD/Nelle Scholarship
 Turbyfill, Joe and Mary Edna Endowed Scholarship Fund
 Van Hooser, Ed Scholarship Fund
 Veterans Scholarship
 Wagner, Kristina Memorial Scholarship
 Walker, Bradley Scholarship
 Walker, D. Ellis/Eloise Scholarship
 Walker, Fred B. Scholarship
 Walker, R.C. & Elizabeth Scholarship
 Wallace, Raymond & Brownie Scholarship
 Warbritton, Effie Scholarship
 Wells, Alexander Kirkland Scholarship
 Wessel, Joy Cojeen Scholarship Fund
 West End Church of Christ Auditorium Class Scholarship
 West Meade Church of Christ Scholarship
 Wheeler, Delilah Willis Scholarship
 Wheeler, I.H. Jr. Scholarship Fund
 Whitaker, J. Mack Memorial Scholarship Fund
 Whiteside, Mary Florence Scholarship Fund
 Whitfield, Thomas/Kathleen Scholarship
 Whitley, Edith Rucker History Scholarship
 Whitney, Lee Engineering Scholarship
 Whittle, Maxine D. Scholarship Fund
 Wilder, William A. Golf Scholarship
 Wilks, Chester & Ola W. Memorial Scholarship Fund
 Williams, Aug.a Scholarship Fund
 Willingham, Ron Scholarship
 Winters, Scott Scholarship Fund
 Woodroof, Margrette R. Scholarship
 Wright Scholarship Fund
 Wyatt, Ken and Mary Scholarship Fund
 Yeager, Robert G./Kathryn S. Scholarship
 Yearwood Scholarship Fund
 York, Samuel & Mary Scholarship
 Zink, Stanley Scholarship Fund

Scholarship Load Requirements

(Credit load does not include audited courses.)

- I. Scholarship load requirements for traditional undergraduates are as follows:

During fall and spring semesters a load of 12 or more hours is required for full scholarship credit. Percentage-based tuition discounts require 12 hours for full credit as well. No scholarships are available for loads of fewer than 12 hours.
- II. Exceptions do exist for regular undergraduates.
 - A. Last semester seniors may request a load exception for non-performance merit awards for less than 12 hours IF they do not begin the semester with more than 126 cumulative hours. Scholarships will be prorated based on the number of hours of enrollment.
 - B. Institutional aid is not available for a CCCU-sponsored trip.
 - C. Scholarship credit during the summer semester is based on different load requirements. These requirements are announced at the beginning of the spring term. For summer travel courses that have been discounted, no institutional aid is available. These travel course credits are not included in the load requirements for summer institutional aid. Students should check with the financial aid office to determine summer scholarship amounts.
- III. Load requirements for special programs are slightly different. Special programs consist of graduate Bible, graduate business, graduate education and Adult Degree Programs. Nine or more hours are required for scholarship credit. Scholarship credit during the summer semester is based on different load requirements.
- IV. Load requirements for performance scholarships are determined by the appropriate department based on departmental guidelines. Questions regarding load requirements for performance scholarships should be directed to the academic chair or director.
- V. Lipscomb University does not enter into consortium agreements with other colleges or universities.

Scholarship Renewal Requirements

(for undergraduate courses)

- I. Institutional aid is renewable for the stated duration period, provided that merit aid is still merited and that need aid is still needed.
 - A. Academic and performance scholarships require varying levels of performance quality.
 - B. Need-based aid requires an annual demonstration of need which is determined by filing yearly a FAFSA. File this form by Feb. 1.

II. Renewal requirements vary among the funds.

- A. Academic scholarships (including presidential, provost, Bison Achievement and transfer) require a cumulative 3.0 GPA or higher for renewal. Trustee and National Merit scholarships require a 3.25 or better.

Note: For freshmen, GPA is evaluated after the semester in which 24 hours have been attempted or two semesters, whichever comes first. No review is made of first-time freshmen after their first semester. For transfer students, GPA is evaluated after the first semester.

- B. Vision Awards require a cumulative GPA of 2.0 or higher and a current FAFSA.
- C. "Memorial scholarships" is a category applied to several hundred funds with individual stipulations. They share some requirements:
1. A yearly FAFSA filing
 2. A cumulative overall GPA of 2.0 or better
 3. GPA evaluation according to the note in 2A
 4. A yearly thank you note
- D. Church of Christ Scholarships/Employment Based Scholarships for Undergraduate Students.

Scholarship awards to first degree undergraduate students whose parent is employed full time (40 hours per week, primary paid vocation) in certain Christian works that are associated with the churches of Christ. Students must maintain a 2.0 cumulative Lipscomb GPA, live on campus each semester, enroll full time (12+ hours) each semester, file a FAFSA each year and provide employment verification annually to the Financial Aid Office. These awards are available to children who are less than 25 years of age and are dependent for federal income tax purposes. Married children are not eligible. These awards are subject to all GPA and probation restrictions and are available only for the customary duration of an academic program. The scholarships are available to children whose parents are employed in the following full-time roles:

Church of Christ Minister

Church of Christ Youth Minister

Church of Christ Missionaries - MUST be living full-time in a foreign country

Employed by Member School of the National Christian School Association (K-12)

Employed by Member School of the National Christian School Association (University Level)

Contact the Financial Aid Office for further details.

- E. Performance scholarships have minimum requirements of a cumulative GPA of 2.0 or better and usually a current FAFSA. However, additional requirements may be imposed by individual

departments based upon departmental guidelines or other applicable criteria (i.e., NCAA guidelines). Questions regarding renewal requirements for performance scholarships should be directed to the academic chair or director.

- III. All institutional scholarships and grants are canceled (generally in the next semester) if a student is placed on a probation of any kind. After the probation is removed, request for reinstatement must be made via the Scholarship: Request for Reinstatement Form. The form must be date-stamped into the financial aid office by last day to drop classes with a partial refund. Late requests will be deferred until the next semester.
- IV. GPA evaluations consider only graduation credit earned at Lipscomb and occur only at the end of fall, spring and summer terms.
- V. Students accepted into the College of Pharmacy are no longer eligible for undergraduate scholarships and tuition discounts.
- VI. Students participating in engineering CO-OP may receive a leave of absence for Lipscomb scholarships and applicable state scholarships. Students must contact the financial aid office for required documents and procedures.

Scholarship Duration Requirements

(for undergraduate courses)

- I. Institutional funds are effective beginning the first semester of enrollment or the specified semester when granted. For most programs, funds are renewable to a maximum of four years, eight semesters or 126 attempted hours.
- II. Extensions are considered under certain circumstances. For consideration, file a Scholarship Special Request Form with the financial aid office. Extensions are considered based on the following:
- A. Students enrolled in the Lipscomb joint B.B.A./ Master of Accountancy (MAcc) program receive an automatic extension since the program requires 150 hours.
- B. Double majors, double minors and major and/or minor changes are not considered legitimate reasons for a scholarship extension.
- C. Requests for extensions must be filed two weeks prior to the semester in which they take effect.
- III. During the extension period, two conditions exist:
- A. Crediting will be according to normal load requirements.
- B. Loads will be determined solely by courses required for graduation.
- IV. Duration requirements for performance scholarships are determined by the appropriate department based upon departmental guidelines. Questions regarding duration requirements for performance scholarships should be directed to the academic chair or director.

Memorial Loans Which Must Be Repaid

The Mr. and Mrs. E. L. Joiner Memorial Loan Fund.

An interested group of donors has established the Mr. and Mrs. E. L. Joiner Memorial Loan Fund for providing loans to worthy and qualified students.

The A. Direll Pigg Ministers Educational Loan Fund. A sum of money was donated by A. D. Pigg of Indiana to establish the A. Direll Pigg Ministers Educational Loan Fund. This fund makes loans to qualified young men who plan to spend their lives preaching the gospel of Christ.

The Chester K. Hart Loan Fund. Eugenia Hart Brown, in her will, established a loan fund in honor of her brother, Judge Chester K. Hart, for worthy and qualified students who have applied and been rejected for all federal and state aid.

The Teaching of Jesus Fund. Brookie M. Steele established this loan fund for the purpose of assisting with the education of young people enrolled in the study of preaching the gospel.

Need-Based Financial Aid

Aid is available in several forms: grants, loans and work. Most of these are based on need, and need is determined by filing a Free Application for Federal Student Aid (FAFSA). The preferred filing method is electronically at www.fafsa.gov. As a result of filing the FAFSA, the filer is sent a Student Aid Report (SAR). The university electronically receives a similar report from the federal processor.

The FAFSA should be submitted by Feb. 1. It can be submitted later, but failure to meet this filing date may affect the availability of some funds.

Need for all students is determined as follows:

Cost of attendance - EFC (Expected family contribution) = Need

Lipscomb University reserves the right to adjust any award at any time because of changes in financial or enrollment status or if the student receives additional outside aid. Most awards are calculated on the basis of living on campus. Moving off campus may result in an adjustment of the award. Recipients of financial aid are required to inform the financial aid office of any outside resources such as scholarships, loans, grants, etc., awarded to them by any source other than Lipscomb University. Failure to do so may result in the reduction or cancellation of assistance at a later date. Financial aid awards are based on information at the time of award. Awards are subject to change pending completion of verification as well as updated test scores or when other outside sources are applied. Any commitment of government funds is contingent upon congressional appropriations and Lipscomb's receipt of those funds.

Federal and State Grants

Federal Pell Grant. This federal grant is for qualifying students who have not earned a baccalaureate degree and who demonstrate a significant degree of need. Since it is a grant, it does not have to be repaid. There is no limit on the number of qualifiers for these funds. Funds are credited to a student's account each term the student is eligible for a grant. Full Pell grant awarding requires a student to enroll in at least 12 hours a semester.

Federal Supplemental Educational Opportunity Grants (FSEOG). Priority for this grant is given to students with the lowest EFCs who will also receive a Federal Pell Grant. Funds are credited to a student's account each term the student is eligible for the grant and is enrolled full time. Funds are limited.

Tennessee Student Assistance Award. Any Tennessee resident who is enrolled or will be enrolled as an undergraduate student may apply by filing a FAFSA. These state funds are also designated for students with the greatest need. Funds are limited. Filing the FAFSA by Feb. 1 is recommended.

Tennessee Education Lottery Scholarship Program (TELS). The TELS program is funded by lottery revenues and administered by TSAC. Applicants must be a graduate of a Tennessee high school and plan to attend a Tennessee college/university. Specific requirements can be found at www.state.tn.us/tsac.

Loan Funds

Federal Perkins Loan. This loan is available to undergraduate students who are at least half time and who show significant need. An undergraduate student may borrow up to \$4,000 per year to a total of \$20,000. The repayment period and the interest do not begin until nine months after the student ends his/her studies. The loan bears interest at the rate of five percent, and repayment of principal, at a minimum of \$40 per month, may be extended up to 10 years. A limited amount of funding is available. A promissory note and a federal Perkins loan pre-loan information sheet must be signed before funds can be credited to a student's account.

Federal Stafford Loan. A borrower must be enrolled or accepted for enrollment for at least six semester hours and must be working toward a degree or certificate. For 3-hour terms in one semester, loans will not credit to a student's account until total registration equals six hours. Loans must be actively accepted in *myLipscomb* or by written request. The Department of Education also requires entrance counseling and a Master Promissory Note to be completed before the loan can be disbursed. These two requirements can be completed online at www.studentloans.gov. Loans will not be credited to accounts until 30 days after classes begin or when a student begins the sixth credit hour, whichever comes last.

Federal PLUS. This loan is for parents of dependent students who need funds to help subsidize their child's education. PLUS loans are also now available to graduate students. The PLUS loan requires credit approval by the Department of Education. PLUS loan requests can be made at www.studentloans.gov after May 1.

Part-time Work

Federal Work-Study Program. Work-study is awarded on the basis of need, therefore requiring the filing of a FAFSA. The awarding of work-study does not guarantee a job, but it does give the recipient priority consideration for work on campus.

Campus Work Program (non-federal funds). In addition to the federal Work-Study Program, Lipscomb offers employment to a limited number of other students.

Veterans Benefits

Degree programs at Lipscomb University are approved by the state-approving agency for the training of veterans and eligible persons under laws administered by the United States Department of Veterans Affairs.

Yellow Ribbon Program. Through an agreement with the United States Department of Veteran Affairs, Lipscomb University will guarantee free tuition to undergraduate students who qualify for the Yellow Ribbon Program. The Yellow Ribbon GI Education Enhancement Program (Yellow Ribbon Program) is a provision of the Post-9/11 Veterans Educational Assistance Act of 2008. This program allows institutions of higher learning (degree-granting institutions) in the United States to voluntarily enter into an agreement with the VA to fund tuition expenses. For eligibility requirements, go to veterans.lipscomb.edu or www.gibill.va.gov/gi_bill_info/ch33/yellow_ribbon.htm.

Any questions concerning eligibility or benefits should be directed to the veterans liaison.

Return of Federal Title IV Policy (R2T4)

In the event a student withdraws, drops out or is expelled from the university prior to the end of a semester of enrollment, the financial aid office will determine if the student must return any Title IV funds, even if the funds have already been credited in full to the student's account. It is the student's responsibility to inform the financial aid office if he or she is withdrawing for any reason from the university prior to the end of a semester.

- I. Students who officially withdraw prior to completing 60 percent of the semester will have their financial aid prorated and any unearned funds returned. Students may owe funds to the Department of Education and/or Lipscomb University.
 - A. Return of Title IV aid will be completed upon notification of a student's withdrawal from the university.
 - B. The registrar's office notifies the financial aid office when a student has withdrawn from the university and the last date of attendance is entered into the university database.

- II. The official last date of attendance for students who withdraw will be determined by the student's instructor in conjunction with the registrar's office.
 - A. A student who officially withdraws will complete a form with the registrar's office which must be signed by various university offices including the financial aid office.
 - B. The registrar's office initiates the withdrawal form and procedure for pre-registered non-returning students.
- III. Upon official notification of a withdrawal by the registrar's office in which classes are removed and a "W" is placed on the student's record, the financial aid office will calculate in accordance with federal guidelines the amount of aid that must be returned or disbursed to the student. The financial aid office uses university software to calculate the earned and unearned funds per student.
 - A. The financial aid office will return any unearned portion of the grant and/or loan funds to the Department of Education. (This may cause a balance owed to the university which becomes the student's responsibility.)
 - B. The student is informed by email of the required returns and the amount, if applicable, that is owed to the university.
 - C. The university business office will send a statement of charges and billing information to the student after the withdrawal and removal of Title IV aid is complete.
 - D. For Federal Stafford Loans, a letter with exit counseling instructions is sent to the withdrawn student and any future scheduled disbursements for the aid year are cancelled.

Federal regulations stipulate how the return of Title IV Funds is calculated for a student who has received financial assistance from any of the Federal Title IV programs. The return must be allocated in the following order and returned to the appropriate program(s):

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loan
4. Federal PLUS Loan
5. Federal Pell Grant
6. Federal SEOG
7. Other Title IV Aid Programs

Unofficial Withdrawals

Students who do not officially withdraw from the university but receive all grades of “F” at the end of the term will be considered to have withdrawn. The registrar’s office will contact the professors in whose classes the students were enrolled to determine if the student earned the grade of “F” and the last date of attendance for that student. The professor will complete a form or respond to the email with the determination of last date of attendance and the earned grade. If the student attended past the 60 percent mark in the semester, it will be deemed that the student earned the grade of “F” and will not be a withdrawal.

Students in module programs who complete one module (example Term I and Term II) but withdraw from the second module will be considered a withdrawal and the calculations and processes described above will be followed. The registrar’s office will determine the last date of attendance in the second module by contacting the student’s professor. Once the date is determined, the information will be entered into the database and passed on to the financial aid office for calculation.

Financial Aid Probation/Loss/Reinstatement

Federal Aid

Students whose Lipscomb cumulative grade point average falls below a “C” (2.0) will be placed on federal financial aid probation for one semester. (Some exceptions apply, see “Satisfactory Progress.”) Students whose Lipscomb cumulative grade point average falls below a “C” (2.0) for two consecutive semesters, and are therefore continued on academic probation, will become ineligible to receive federal financial assistance. If a student is suspended for any semester and then provisionally reinstated to the university on probation, federal financial assistance will not be reinstated until the student’s Lipscomb cumulative grade-point average is at or above 2.0.

Academic Scholarships

Students with academic-based scholarships whose Lipscomb cumulative grade-point average falls below a 3.0 (3.25 cumulative GPA for trustees, National Merit Finalists and Semi-Finalists), will lose their academic scholarships in the next semester of enrollment (current first-semester freshmen are exempt from the GPA review). The scholarship can be reinstated when the cumulative GPA returns to a 3.0 (3.25 for trustees, National Merit Finalists and Semi-Finalists) or better after taking a full-time load at Lipscomb (12 hours in fall and spring). To request reinstatement, complete the form “Scholarship: Request for Awarding or Reinstatement” found at financialaid.lipscomb.edu prior to the last day to drop classes with a partial refund as listed on the official school calendar for each semester. Late requests will be deferred to the following semester.

Other Institutional Aid

Students whose Lipscomb cumulative grade point average falls below a “C” (2.0) will lose all institutional aid in the next semester of enrollment. Current freshmen on academic warning will not lose institutional aid. Exceptions to this policy may be granted at the discretion of the associate provost for student academic support. Institutional aid will not be reinstated until the cumulative grade point average is at or above 2.0. Requests must be submitted in writing to the financial aid office for reinstatement by the “Last Day to Drop Classes with Partial Refund” date as listed on the official calendar each semester.

Financial Assistance for Students on Disciplinary Probation

Eligibility for financial assistance provided from university resources is partially based upon a student’s personal conduct and citizenship. Students who demonstrate behavior inconsistent with established university guidelines and policies for personal conduct, as outlined in the Student Handbook, will forfeit their institutional awards. Students who engage in illegal activities as defined by state and federal law will forfeit all financial assistance immediately, even if charges are not formally filed against the student.

Satisfactory Academic Progress to Maintain Federal Financial Aid

Federal regulations require that all federal financial aid recipients MUST be enrolled in a degree-seeking program and maintain satisfactory academic progress toward a degree to maintain eligibility. The university monitors each student’s cumulative grade point average, completion rate and maximum time frame for completion of a degree, consistent with the provisions of this policy. All federal financial aid programs at Lipscomb University are held to this policy.

In order to receive federal financial aid, students must be making satisfactory academic progress. The university is required to apply standards that are both qualitative and quantitative.

Qualitative

Students must be accepted for admission and be eligible to enroll for classes. In addition, students must achieve and maintain a cumulative grade point average based on each program’s academic requirements.

Quantitative

All students must earn a cumulative minimum of 66.7 percent of all hours attempted. Students cannot receive federal aid after attempting 150 percent of the hours required for completion of their academic program.

The federal government expects a student to pass at least 66.7 percent of all attempted hours, not earned hours. Attempted hours include all “W,” “F,” “NC,” “U,” “T” or “IP,” and/or dropped courses. Satisfactory academic progress is reviewed

by the financial aid office at the end of each term in which a student receives Title IV aid. Students placed on federal financial aid warning or probation will be notified by email to their Lipscomb email address. Students on warning must pass 75 percent of their attempted hours in the semester in which they are currently enrolled. If the student does not pass 75 percent, the student will be placed on financial aid probation.

All probations may be appealed in writing by completing a Satisfactory Academic Progress Appeal Form (located in the financial aid office). All appeals must include documentation of any unusual circumstance that contributed to the probation. A plan must be in place to ensure success of the student the following semester that will allow the student to meet future minimum satisfactory academic progress requirements and be signed by a faculty member (or appropriate instructor). Federal financial aid warning or probation is **not** the same as Lipscomb University academic probation or suspension. If a student receives a grade change or satisfies an incomplete grade after satisfactory academic progress is confirmed, it is the student's responsibility to notify the financial aid office during the appeal process.

Completion Rate

Students must earn 66.7 percent of their cumulative credits attempted to remain eligible for financial aid. Grades of "A," "B," "C," "D," "S," and "I" count as credits earned. All courses for credit will be counted as hours attempted including withdrawals, incompletes, courses repeated and courses receiving a grade of "NC," "U," and "F."

Warning. Students whose completion rate is greater than 50 percent but less than the required 66.7 percent will be placed on warning.

Probation. Students whose completion rate is less than 50 percent of the credit hours attempted, or those previously placed on warning whose completion rate does not improve by the next review, will be suspended from eligibility for federal grants, loans and federal work-study employment. Probations may be appealed through the financial aid office.

Time Limitations

Undergraduates. The maximum time limitation for the completion of a first degree is limited to 150 percent of the program's published length. Most undergraduate programs require 126 hours (some degrees require additional hours), so the average maximum attempted hours allowed is 189. This time limitation does not include remedial or developmental courses for which the maximum federal limitation is 30 hours. The 189 hours includes all transfer hours, all attempted hours and hours attempted while not receiving financial aid. Students who change majors during their junior or senior year will be allowed 24 additional attempted hours to obtain a degree. The registrar's office must have the change of major recorded prior to reaching the 189 hour limitation.

Second Degree Students. Students who are pursuing a second bachelor's degree must declare the intent to pursue a second degree to the registrar's office and have an approved plan on file. This approved plan must also be submitted to the financial aid office to determine aid eligibility and reasonable time frame for completion of second degree.

Graduates. The maximum time limitation for graduate students will be 150 percent of the standards established by the graduate studies office and published in the Graduate Catalog. Hours accepted for transfer credit will reduce this time frame.

Review of Progress Standards

Grade-Point Average. The financial aid office reviews the GPA at the end of each fall and spring semester. Hours taken in the summer will count in the cumulative GPA.

Completion Rate. The financial aid office reviews the completion rate at the end of each semester.

Time Limitation. The financial aid office reviews the maximum time limitation at the end of each semester.

Repeated Courses. The registrar's office will calculate the GPA for students who repeat a course at the end of each semester. Students must notify the financial aid office if a repeated course would impact academic progress.

Notification/Appeals

Over 150 Hours. Students who have attempted over 150 credit hours will receive an email at their Lipscomb email addresses from the financial aid office notifying them of the 189-hour limitation on federal financial aid.

Warning. Students placed on financial aid warning will receive an email at their Lipscomb email addresses from the financial aid office notifying them of their financial aid status and the expected requirements. Each student will be allowed at least one probationary period during the course of his or her enrollment.

Probation. Students on probation from financial aid will receive an email at their Lipscomb email addresses from the financial aid office notifying them that they have been placed on probation. Students will be allowed to appeal their probation by completing the appeal form and if they can provide documentation of extenuating circumstances beyond their control that significantly contributed to their academic performance. Examples would include the death of an immediate family member, an extended medical illness, etc. The financial aid office will work with each student to determine approval or denial of an appeal. Provisions may also be made for students who have military credits that cannot be counted toward a degree.

Financial Aid Probation Appeals. An internal committee composed of financial aid staff reviews student appeals. Each student will be notified of the appeal decision, and if denied, what action must be taken to regain financial aid eligibility. If denied, a student may attend Lipscomb University at his or her own expense with no institutional, federal or state aid.

No Credit Hours Earned. A student who earns no credit hours for one semester will be placed on warning. A student who earns no credit hours for the last two semesters enrolled will be placed on probation from federal financial aid. However, the student may appeal the probation.

Teacher Licensure. Students who have completed an undergraduate degree and are enrolled for the sole purpose of attaining teacher licensure are eligible for loans at the undergraduate level. To receive aid, students must be enrolled at least half-time in required teacher certification course work. Student must submit a Non-Degree Special Exception Form (available in the financial aid office and on *myLipscomb*) signed by both the student and the program coordinator.

Exceptions. The university may suspend a student's financial assistance in the event of extraordinary circumstances that are not accounted for in this policy. In all instances, the student will be notified of the appeal process.

Gainful Employment

The Department of Education requires universities to report information about students who enroll in Title IV eligible programs that lead to gainful employment in a recognized occupation. The university has several non-degree, certificate programs that lead to employment opportunities. To find out more about these programs, including tuition cost, length of time to complete the program and the results of the program, please contact the specific program director.

Student Consumer Rights and Responsibilities

Education after high school costs you time, money and effort. It is a big investment, and as a student and a consumer, you should carefully evaluate the education or training you are considering. To help you make a good choice, you should have information on a school's academic program, facilities, dropout rates, full cost of attendance, refund policy, financial aid programs and any other information you think will help you to make a decision.

Student Rights

You have the right to ask a school:

1. What financial assistance is available, including information on all federal, state and institutional financial aid programs.
2. What the deadlines are for submitting applications for each of the financial aid programs available.

3. What is its cost of attendance, and what are its policies on refunds to students who drop out.
4. What criteria it uses to select financial aid recipients.
5. How it determines your financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, and personal and miscellaneous expenses are considered in your budget.
6. What resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of your need.
7. How much of your financial need, as determined by the institution, has been met.
8. To explain the various programs in your student aid package. If you believe you have been treated unfairly, you may request reconsideration of the award which was made to you.
9. What portion of the financial aid you receive must be repaid, and what portion is grant aid. If the aid is a loan, you have the right to know what the interest rate is, the total amount that must be repaid, the payback procedures, the length of time you have to repay the loan, and when repayment is to begin.
10. How the school determines whether you are making satisfactory progress and what happens if you are not.

Student Responsibilities

It is your responsibility to:

1. Review and consider all information about a school's program before you enroll.
2. Pay special attention to your application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay your receiving financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
3. Submit all additional documentation, verification, corrections and/or new information requested by either the financial aid office or the agency to which you submitted your application.
4. Read and understand all forms you are asked to sign and keep copies of them.
5. Accept responsibility for all agreements you sign.
6. If you have a loan, notify the lender of changes in your name, address or school status.
7. Perform in a satisfactory manner the work that is agreed upon in accepting a federal Work-Study award.
8. Know and comply with the deadlines for application or reapplication for aid.
9. Know and comply with your school's refund procedures.

10. All students who have received a loan must report at the time of withdrawal, transfer or graduation to the financial aid office for an exit interview.

For further information on scholarships or financial aid, call or write: Financial Aid Office, Lipscomb University, One University Park Drive, Nashville, Tenn. 37204-3951.

In the Nashville area, call 615.966.1791, or from outside the area, toll-free at 1.800.333.4358, ext. 1791, or visit us on the web at www.lipscomb.edu.

The Academic Program

Lipscomb University is a Christian liberal arts institution that offers degrees at the associate, baccalaureate, master's, and doctoral levels. At the associate level, Lipscomb offers the Associate of Arts degree (available only to residents of the Tennessee Prison for Women). At the baccalaureate level, Lipscomb offers the Bachelor of Arts degree, the Bachelor of Business Administration degree, the Bachelor of Fine Arts degree, the Bachelor of Music degree, the Bachelor of Professional Studies, the Bachelor of Science degree, the Bachelor of Science in Nursing degree and the Bachelor of Social Work degree.

At the graduate level, the following degrees are offered: Master of Accountancy, Master of Arts (in Christian Ministry, Christian Practice, Civic Leadership, Conflict Management, and Film & Creative Media), Master of Business Administration, Master of Divinity, Master of Education, Master of Fine Arts (Film & Creative Media*) Master of Human Resources, Master of Marriage and Family Therapy, Master of Management, Master of Professional Studies, Master of Science (in Applied Behavioral Analysis*, Clinical Mental Health Counseling, Psychology, Exercise and Nutrition Science, Informatics & Analytics, Information Security, Information Technology Management, Software Engineering, Biomolecular Science, Engineering Management, Health Care Informatics, and Sustainability), Master of Theological Studies, Education Specialist, Doctor of Education, Doctor of Ministry and Doctor of Pharmacy. Lipscomb University also awards Certificates of Graduate Study in several areas of study. These certificates do not imply professional certification but are intended to strengthen students' qualifications and professional portfolios in specific areas.

Students interested in graduate degrees or certificates should contact the respective program director or consult the Graduate Catalog for more information. All undergraduate degree programs are described in this catalog.

The university is dedicated to providing a broad liberal arts program which is both challenging and sound. An ideal of the university is to have the best students studying under the best teachers in the best possible Christian environment.

*SACSCOC approval pending

The academic program contains four essential parts: (1) the Bible requirement, (2) the general education requirement, (3) the major area of study, (4) electives. These four parts are discussed in the following paragraphs.

Bible Requirement

The study of the Bible is integral to a Lipscomb education. Although abundant opportunities for further study are available, all Lipscomb students examine the Bible's overall message and the life to which it calls believers. Many students will be able to take one or more courses that specifically address the implications of Christian faith for their chosen field of study.

The general education Bible requirement consists of the following six courses: Bible 1073 (The Story of Jesus), Bible 1083 (The Story of the Church), Bible 1093 (The Story of Israel), and LUEG 3xn3 (the Engagements general education course); one of the following three: Bible 3213 (Faith and Culture), Bible 3433 (Disciplines for Christian Living) or Bible 4213 (Biblical Ethics); plus one elective. Students who come to Lipscomb with little exposure to the Bible may choose to take Bible 1003 (Introduction to the Bible and Christianity) before beginning the sequence above. If a student chooses this option, Bible 1003 will count as the elective Bible class.

Course work beyond the courses listed above that satisfies a Bible requirement must be approved by the College of Bible and Ministry.

Important Note: Bible 1073, 1083 and 1093 are prerequisites for all other Bible courses (except Bible 1003 and selected Bible major courses). These three courses must be taken in a student's first three semesters at Lipscomb (excluding Wintermester, Maymester and summer) and may not be dropped without approval from the associate dean for undergraduate Bible.

Transfer Students

Transfer students seeking a Lipscomb degree must satisfy the Bible requirement based on the number of credit hours they initially transfer to Lipscomb, as specified below. If the listed content is met, other approved Bible courses must be taken.

Students who transfer 67-93 credit hours to Lipscomb must complete two Bible courses at Lipscomb: Bible 1073 or 1083 or 1093; and LUEG 3xn3, or approved Bible credit courses as determined by program requirement (e.g., nursing and engineering).

Students who transfer 47-66 credit hours to Lipscomb must complete three Bible courses: Bible 1073 or 1083 and 1093; and LUEG 3xn3, or approved Bible credit courses as determined by program requirement (e.g., nursing and engineering).

Students who transfer 33-46 credit hours to Lipscomb must complete four Bible courses: Bible 1073, 1083, 1093, and LUEG 3xn3, or approved Bible credit courses as determined by program requirement (e.g., nursing and engineering).

Students who transfer 32 or fewer hours to Lipscomb must complete the full Bible requirement, as described above or approved Bible credit courses as determined by the associate dean for undergraduate Bible.

Tennessee Board of Regents Transfers

An approved Bible class can be substituted for the LUEG requirement for students:

1. who have earned an A.A. or A.S. degree from a Tennessee Board of Regents institution, or
2. who transfer to Lipscomb without the A.A. or A.S. degree but who have satisfied the TBR general education requirements.

The General Education Requirement

Students entering prior to summer or fall 2012 should refer to an earlier catalog for general education requirements.

The general education core curriculum is the heart of the Christian liberal arts education at Lipscomb University. The mission and purpose of this program is to structure academic exploration in a Christian context as a foundation for a life of learning and service in a diverse global environment. The mission and purpose of general education at Lipscomb University is accomplished by a curriculum that prepares students to engage in the tradition of conversation in the academy through course work in writing and speaking; cultivate curiosity that transcends disciplinary boundaries through multi-disciplinary integrated Explorations course work; think critically and ethically through Foundations course work, multi-disciplinary integrated Explorations course work, and through the Bible curriculum; understand and evaluate ways of knowing by making connections between academic areas through multi-disciplinary integrated Explorations course work; and live in a diverse world with integrity and compassion through Engagement course work that connects world issues to a student's major academic area.

Students pursuing the Bachelor of Arts or the Bachelor of Music degree will also be required to complete additional hours in a foreign language; those pursuing the Bachelor of Science or Bachelor of Science in Nursing degree will be required to complete additional hours in math and/or science.

The specific requirements are as follows:

1. **Foundations** 26 hours
 - **Bible** (BI 1073, BI 1083, BI 1093 must be taken in sequence) 9 hours
 - **LU Seminar** (LU 1103)..... 3 hours
 - **Composition** (EN 1313) 3 hours
 - **Communication** (CO 1003 or other approved course*) 3 hours
 - **Wellness** (PE 2012 or two different activity courses) 2 hours

(continued in next column)

- **Science with lab** (Students may satisfy this requirement with a biological (biology) or physical science (astronomy, chemistry or physics) course with lab, LUMS with lab 3 hours
- **Math** (excludes non-credit, developmental courses) 3 hours

2. Explorations 12 hours

Students must satisfy the requirement by taking at least one course in each of the following four areas. At least six hours (two of the four areas) must be fulfilled by integrated course work. The prerequisites listed apply to integrated course work. Existing prerequisites apply for traditional course work used to fulfill the requirement.

(Part or all of the Explorations integrated courses requirement may be satisfied by a Lipscomb semester-long global learning program. Other global learning courses may satisfy general education requirements and/or major/minor requirements, depending on the nature and context of the course.)

• Math/Science (LUMS 2xn3) 3 hours

(Prereqs: LU 1103 and Foundations math and science courses; ACT Math=19, SAT Math = 460, or MA 1020)

Students will choose one approved integrated course that includes math or science. Students may also satisfy this requirement by taking three hours from the following: math, physics, chemistry, biology, astronomy, or ESS 1013 or 2013.

• Literature (LULT 2xn3) 3 hours

(Prereq: EN 1313)

Students will choose one approved integrated course that includes literature. Students may also satisfy these requirements by taking three hours from this list of approved courses: EN 2113, 2123, 2133, 2143, 2153 or 2163.

• History (LUHI 2xn3) 3 hours

Students will choose one approved integrated course that includes history. Students may also satisfy these requirements by taking three hours from this list of approved courses: HI 1013, 1023, 1113, 1123, 2213 or 2223.

• Social Science (LUSS 2xn3) 3 hours

Students will choose one approved integrated course that includes a social science. Students may also satisfy this requirement by taking three hours from the following: psychology, sociology, economics, political science, law, justice & society (LJS 2103) and philosophy (PL 1003, 2013, 3433).

3. Engagements (LUEG 3xn3) 3 hours

(Prereqs: Minimum of 60 hours earned credit)

A multidisciplinary course that investigates a particular era, theme or problem, using insights, methods and habits of thought from the liberal arts (math, sciences, humanities, and the fine arts), Bible and other academic disciplines. **This course meets an elective Bible requirement.**

4. **Additional requirements**6 hours
Bible: One of the following (BI 3213, BI 3433, or BI 4213) and one elective course (or substitute listed within the major).....6 hours

5. **SALT**2 service-learning experiences
 No more than one experience can come from Tier I. At least one experience must come from Tier II or Tier III.

6. **Additional hours for the Bachelor of Arts, Bachelor of Music, and Bachelor of Science degrees:**

Bachelor of Arts: Candidates for the Bachelor of Arts degree must complete eight semester hours of a single foreign language. (For proper scheduling, it should be taken no later than the sophomore year.)

Bachelor of Music: Candidates for the Bachelor of Music degree (with concentrations in performance or composition only—i.e., not music education majors) must complete eight semester hours of a single foreign language. (For proper scheduling, it should be taken no later than the sophomore year.)

Bachelor of Science: Candidates for the Bachelor of Science degree or the Bachelor of Science in Nursing degree must complete a total of 15 semester hours of mathematics and/or science. Courses may be chosen from the following areas: biology, chemistry, computer science, information technology, integrated science, mathematics, physics and engineering.

- Notes:*
- a. Any student who has developed competence in any of the above areas may achieve credit by examination—CBAPE, CLEP or course examination—by taking the examination prior to taking a college course in the same area of study.
 - b. Transfer students general education requirements
 General education requirements for students transferring to Lipscomb University will be determined by the following criteria:
 - i. Transferring 1-30 hours - full program (Some accommodation may be necessary if Explorations areas have been fulfilled through traditional course work.)
 - ii. Transferring more than 30 hours - All subject area requirements must be met including participation in at least the Engagements course. Accommodations may be necessary if Explorations areas have been fulfilled through traditional course work. Explorations areas not met will be satisfied through integrated courses up to two integrated courses. For Bible requirements, see the Bible Requirement section of this catalog.

iii. Associate Degree Transfers (Tennessee Board of Regents (TBR) institutions) - Follow criteria on page 10 of undergraduate catalog. For Bible requirements, see the Bible Requirement section of this catalog.

iv. Associate Degree transfers (non-TBR institutions) - see No. 2 above.

c. Teacher education students should see the Office of Teacher Education for special requirements in general education.

The Major Area of Study

All candidates for a degree at Lipscomb University must complete a major as a part of their academic program. Requirements for these majors are prepared by the department involved and are approved by the appropriate college and by the Academic Leadership Team.

Requirements for majors are listed within the departmental sections of this catalog. For the page number of a specific major, check the index.

A grade-point average of 2.0 must be maintained on all Lipscomb courses required for the major. Transfer work to be counted toward a major must be accepted by the registrar's office and approved by the academic chair or dean involved. At least three courses (minimum of nine hours) in the major field must be taken at Lipscomb.

Students should choose their major area of study as early as possible. The major must be chosen and "declared" by filing the Major-Minor Form in the registrar's office when 57 hours have been earned. (Students will normally not be allowed to register for further work until the Major-Minor Form is properly filed.) Some departments have prepared summary lists of all requirements for the different majors within each department. Students should contact the academic chair involved as soon as a possible major is selected.

Curricular details of any specific student's major must be finalized under the direction of the particular office or department to which that major has been assigned. This normally takes place when the Major-Minor Form is completed and officially filed in the registrar's office.

In the case of a general studies interdisciplinary non-teaching major, final details must be approved by the director of teacher education and the registrar.

Majors Offered:

- | | |
|--|---------------------------------|
| Accounting | Art |
| American History | Art Therapy |
| American Studies | Biochemistry |
| Applied Biochemistry-
Pharmacy emphasis | Biochemistry-Applied
Biology |

Biology-Pharmacy
 Biology Teaching
 Biomedical Physics
 Chemistry-Applied
 Chemistry-Professional
 Chemistry Teaching
 Civil Engineering
 Computer Science
 Dietetics
 Education
 Electrical and Computer
 Engineering
 English
 English Teaching
 Environmental and
 Sustainability Science
 European History
 Exercise Science
 Family and Consumer
 Sciences
 Financial Management
 Financial Markets
 Food Systems Management
 French
 French Teaching
 General Studies:
 Interdisciplinary
 German
 German Teaching
 Global History
 Government and
 Public Administration
 Graphic Design
 Health and Physical
 Education Teaching
 History
 History Teaching
 Informatics
 Information Security
 Information Technology

Information Technology
 Management
 Integrated Studies
 Journalism and New Media
 Law, Justice and Society
 Leadership Communication
 Management
 Marketing
 Marketing-Graphic Arts
 Mathematics-Applied
 Mathematics-Regular
 Mathematics Teaching
 Mechanical Engineering
 Molecular Biology
 Music
 Music Teaching
 Nursing
 Organizational Leadership
 Philosophy
 Physics
 Physics Teaching
 Political Science
 Psychology
 Public Relations
 Restorative Criminal Justice
 Social Work
 Software Engineering
 Spanish
 Spanish Teaching
 Studio Art
 Theatre-B.F.A.
 Theatre-B.A.
 Theatre-Ministry
 Theatre Teaching
 Theology and Ministry
 Visual Arts Administration
 Visual Arts Teaching
 Web Applications
 Development

The Minor Area of Study - Optional

In addition to the major area of study described above, a student may complete one of the minors listed below. The requirements for these minors are prepared by the department involved and are approved by the appropriate college and by the Academic Leadership Team.

Requirements for minors are listed within the departmental sections of this catalog. For the page number of a specific minor, check the index.

Note: All teaching majors including Pre K-3 interdisciplinary, K-6 interdisciplinary, 4-8 interdisciplinary, art, music, theatre, health and physical education, Spanish, French, German, English, history, math, biology, chemistry and physics have a built-in minor in the social sciences and professional education.)

Minors Offered:

Accounting	History of Ideas
Applied Ethics	Human Resources
Art	Informatics
Art History	Information Security
Bible	Information Technology
Biblical Languages	Interior Design
Biology	International Business
Biomedical Physics	International Studies
Chemistry	Internet and Social Media
Coaching	Journalism and New Media
Competency-based	Law, Justice and Society
Computer Science	Leadership Communication
Criminal Justice	Management
Dance	Marketing
Diversified	Mathematics-Pure or Applied
Economics	Missions
Education (no certification)	Music-General
English	Musical Theatre
Entrepreneurship	Nutrition
Ethics	Organizational Leadership
Exercise Science	Philosophy
Family and Consumer Sciences	Physics
Family Studies	Political Science
Fashion Merchandising	Psychology
Finance	Public Policy
Foods	Public Relations
Foreign Language Distributive	Social Entrepreneurship
French	Social Welfare
General Business	Sociology
General Finance	Software Engineering
German	Spanish
Graphic Design	Sustainable Practice
Greek	Theatre
Health	Web Development
Hebrew	Worship Ministry
History	

In lieu of one of the minors listed above, students may elect to create their own minor (based on the approval and under the direction of the academic chair of their major field). This diversified minor is composed of at least 15 approved hours of additional 3000 and/or 4000 level courses outside the student's major field of study. (Other regulations applicable to traditional minors also apply.)

A grade-point average of 2.0 must be maintained in all Lipscomb courses required for the minor. Transfer work to be counted toward a minor must be accepted by the registrar's office and approved by the academic chair involved. At least two courses (minimum of six hours) in the minor field must be taken at Lipscomb.

Students taking a major and a minor from the same department must complete all requirements as listed in the catalog for the major and the minor. Since some courses may be required in both the major and the minor, there must be at least 30 distinct hours in the major and at least 15 distinct hours in the minor with no overlap in these hours.

The requirements for the different minors given in this section are under the control of the academic departments involved. The details for a minor are to be arranged with the academic chair when the Major-Minor Form is completed and officially filed in the registrar's office when 57 hours have been earned.

Electives

Each student must complete a minimum of 126 semester hours to be considered for graduation. Many of these hours will be specified by the Bible requirement, the general education requirement, and the major requirement. The student is then free to choose courses from any departmental listing in this catalog to complete the requirements for graduation. Students are advised to consult with their academic advisor and possibly the academic chair involved to make sure they have all prerequisite requirements for any elective courses they choose.

Academic Success Center

The Academic Success Center resides in Room 141 of the Beaman Library. Within the ASC, students may take advantage of individual tutoring, collaborative study groups, athletic study hall, academic workshops, student advocacy consultation and academic coaching. The ASC houses the university math lab, Lipscomb University Writing Studio, Office of Disability Services and the testing center. Within the ASC, students are able to take advantage of various means of technology. The center is equipped with laptop computers, desktop computers, iPads and mounted LED monitors as well as specialized computer software that is designed to assist students with disabilities and English language learners. The ASC facilitates themed academic workshops which are built around components shown to increase academic success. The ASC is designed to serve the entire student population in the area of academic support and enrichment and assist students in reaching their highest academic potential. Personalized attention is given to each student and unique learning styles are considered when planning academic programming. A

major focus of the ASC is to be available to accommodate the needs and academic support services that are requested by the students and faculty. If you have questions regarding the ASC, please call 615.966.1400.

Academic Advising

The mission of academic advising at Lipscomb is to assist students in making progress toward achieving their educational, career and personal goals. Utilizing faculty and selected staff as academic advisors, the university seeks to support and promote intellectual and personal growth for students in a Christian community. Although the university will make available to its students a wide range of institutional and community resources, academic progress from entry into the university through graduation is ultimately the responsibility of each student. For information concerning academic advising, contact the director of academic advising and support services.

A degree audit tool called *myDegreePlan* has been created for the student and advisor to run online at *myLipscomb* to track progress toward graduation. To access *myDegreePlan*, students should go to my.lipscomb.edu, log in with their network username and password, and click on "*myDegreePlan* (Students)" under the Degree Planning area under Student Links. Likewise, advisors should go to my.lipscomb.edu, log in with their network username and password, and click on the Plan icon in the Launchpad to the left, then select "*myDegreePlan* (Advisors)." Any student who enrolled at Lipscomb University in Fall 2011 or later and any undergraduate student who has officially declared under a 2012-13 or later catalog can use *myDegreePlan*. Graduate students who began in fall 2012 or later can also utilize *myDegreePlan*.

Three-Year Degree Plan

Lipscomb University offers a variety of options for completing a bachelor's degree, including the Three-Year Degree Plan. Graduating on the three-year fast track gives students a significant financial advantage and more time to pursue other academic interests or a career. More than 40 of Lipscomb's major programs of study can be completed in three years, all with dedicated, interested faculty who will engage students in challenging, scholarly and faith-informed studies that will help them achieve their academic goals. Students participating in the Three-Year Degree Plan, who meet the program's criteria, qualify to receive a \$1,000 voucher that may be applied to tuition, room and board, or one of Lipscomb's global learning travel courses.

The Three-Year Degree Plan is a challenging academic endeavor and may require students to commit to a choice of major in the freshman year. Students interested in pursuing the Three-Year Degree Plan should consult with their academic advisors each semester prior to scheduling any courses. Academic advisors will be able to advise students on the courses to take in each semester to ensure that their course schedules fit the Three-Year Degree Plan. Advisors will also discuss with students whether the Three-Year Degree Plan is appropriate for the student and available for the students' desired major.

Students and academic advisors should consider the following factors as they discuss the option of the student's pursuit of the Three-Year Degree Plan.

1. ACT/SAT score
2. High school grade point average and rank
3. Outside employment commitments
4. Recommended college credits to take within a semester
5. Lipscomb University grade-point average
6. Academic commitment and motivation of the individual student

Because course scheduling is of utmost importance in successfully completing the Three-Year Degree Plan, freshman students admitted to Lipscomb in a semester other than the fall semester may find course scheduling a challenge under the Three-Year Degree Plan. This is because some majors may have required courses offered in a sequence that begins in the fall semester when the vast majority of freshman students enter the program. As such, in some majors, freshman admits in spring and summer may not be able to follow the Three-Year Degree Plan course schedule due to conflicts with these sequenced courses. However, academic advisors will work with students to accomplish the Three-Year Degree Plan where possible.

Students interested in pursuing the Three-Year Degree Plan should contact Rob Mossack, director of academic advising, at academicadvising@lipscomb.edu or 615.966.6297 for more information.

Dual Enrollment Programs

Lipscomb University has partnered with select high schools in the area to provide college-level course work on their campuses. We also work with individual students who want to take courses on our campus as a dual-enrolled student. Students interested in participating in dual enrollment courses must meet the admission requirements of the university and be admitted to the university prior to the start of classes the semester in which they plan to enroll in dual enrollment courses. To be considered for admission into the dual enrollment program, the student must submit the following items: an application for admission, ACT/SAT scores, an official high school transcript and a reference from the school's guidance counselor. (Homeschooled students may provide a reference from an educational source other than a parent.)

In addition to meeting the university admission requirements, the student must also meet all course prerequisites, such as specific sub-scores on the math and English portions of the ACT/SAT, to be allowed to register for those courses. Exceptions will not be made for students who do not meet course prerequisites.

The student is also responsible for submitting the dual enrollment grant application by the state-mandated deadline (Sept. 15 for the fall semester, Feb. 1 for the spring semester, and May 1 for the summer term). Students who do not submit the grant application by the specified deadline are responsible for payment in full of the charges incurred by participation in the dual enrollment program.

Additional information about the dual enrollment program, including approved class lists for each semester, can be found at dualenrollment.lipscomb.edu.

Services for Students with Disabilities

Students with disabilities (learning, physical and/or psychological) should contact the director of Disability Services in the Academic Success Center at 615.966.6301. This office coordinates services for students by collecting documentation of a disabling condition and by advising students, parents, faculty and staff on reasonable accommodations made available by the university.

Testing Services

The Testing Services office supervises the administration and interpretation of psychological tests (personality type, vocational interest, marital and premarital assessments) and educational tests (MAT, CLEP, etc.). It also oversees the SAT, ACT and PRAXIS national testing programs on designated Saturdays. The testing director may be reached at 615.966.1781.

The SALT Program: Serving and Learning Together

The SALT program is a comprehensive plan to integrate service-learning into the educational experience of traditional undergraduate students at Lipscomb University. A strategy for developmentally enhancing student learning, the SALT Program allows students to connect their academic experience and spiritual development with significant engagement in the community.

Service-learning through the SALT program is an academic enterprise in which a service activity acts as a vehicle or “textbook” for understanding an academic concept. In service-learning, the academic credit is given for learning, not for the service completed.

Because Lipscomb expects its students to engage in innovative and rigorous academic experiences and because of the shared belief that a Christ-like attitude calls for service to others, traditional undergraduate students are expected to complete two service-learning experiences before graduation. These experiences will contribute to the student’s development academically, personally/spiritually and civically.

Adult Degree and second degree students are not subject to the SALT graduation requirement. Additionally, students enrolled at Lipscomb University prior to fall 2008 are not subject to the SALT graduation requirement.

The service-learning graduation requirement is intended to ensure that students participate in meaningful service-learning experiences. The requirement is flexible in that it can be accomplished by participating in SALT experiences in a variety of combinations. These experiences include SALT enhanced service days, academic courses, mission trips, internships or cooperatives. This chart displays the types of SALT experiences that students may participate in to satisfy the graduation requirement:

Developmental level	SALT experience	Length of service engagement
Tier I	SALT-enhanced service days	3-5 hours
Tier II	SALT-enhanced university courses	10-25 hours
Tier III	SALT-enhanced mission trips, internships, SALT cooperatives,	
	Federal Work-Study-Placement	40+ hours
Tier IV	SALT capstone project (for SALT Scholars only)	30+ hours

To satisfy the graduation requirement, students must complete two SALT experiences. No more than one experience can come from Tier I. At least one experience must come from Tier II or Tier III.

Students interested in going beyond the basic service-learning graduation requirement will be given the opportunity to attain the distinction of SALT Scholar. The SALT Scholar is a student who has become an expert in service-learning in the context of Lipscomb University, and whose investment in service-learning reflects a significant level of engagement. SALT Scholars will receive special distinction at graduation and on their academic transcript.

Transfer students entering Lipscomb University with more than 90 hours will be required to complete one SALT-enhanced course, mission trip, internship or cooperative before graduation. Transfer students entering Lipscomb with less than 90 hours will be responsible for completing two SALT experiences. It may be possible to transfer credit for SALT experiences. Contact Christin Shatzer, Director of Service-Learning, for more information.

Students will learn about other SALT-enhanced experiences through the SALT Center, campus-wide communication, the student missions office, academic departments, the career

development center, campus life and the federal work-study program. It is the student’s responsibility to identify and complete two SALT experiences before graduating. Questions can be directed to Christin Shatzer, director of service-learning, at christin.shatzer@lipscomb.edu or 615.966.7225. More information is available at salt.lipscomb.edu.

These courses may satisfy the SALT Tier II requirement. Check the program website, salt.lipscomb.edu, and *myLipscomb* for officially designated SALT course offerings.

AC 390V	CO 2153	ESS 3133	MG 4453
AC 401V	CO 3643	EX 4152	NUTR 3603
AR 2323	CO 3713	FS 3012	NUTR 3633
AR 3733	CO 3823	FS 401V	PE 4502
AR 419V	CO 4813	FS 404V	LUMS 2003
AR 4943	CO 4823	IT 2053	LUMS 2013
BA 3703	CO 4833	IT 3053	SW 1103
BA 4503	ED 3354	LJS 3303	SW 3223
BI 3103	ED 3532	LJS 390V	SW 4523
BI 470V	EN 3013	LJS 4203	TH 3023
BI 475V	EN 400V	LJS 4303	TH 3413
BI 477V	EN 419V	LU 1103	
BI 479V	ENGR 3122	MG 3403	
BY 1013	ESS 1013	MG 4403	

Requirements for Graduation

This catalog is prepared as a comprehensive statement of the requirements for attendance and graduation at Lipscomb University. Students must meet all of the requirements covered in this catalog to qualify for graduation. While academic advisors are assigned to counsel students and help plan schedules, each student is ultimately responsible for monitoring his/her own progress and completing all requirements. The following list is only intended as a summary of general requirements.

- I. All candidates for a bachelor's degree at Lipscomb University must complete a minimum of 126 semester hours of work with a minimum grade-point average of 2.0 overall, 2.0 in the major, and 2.0 in the minor (if applicable) on all work taken at Lipscomb University. These 126 hours will include:
 - A. The Bible requirement.
 - B. The general education requirements.
 - C. A major area of study.
 - D. Electives

- Notes: 1. Lipscomb University will allow a maximum of 33 semester hours of credit toward graduation based on a combination of correspondence courses, extension courses, special examinations, advanced placement credits and equivalency credits. (See paragraphs below on each of these areas.) The university does not guarantee the transferability of any of these credits to other institutions. Students should investigate these possibilities as the need arises. In the case of students planning to enter professional schools, such as schools of medicine or law, investigation should be made at the professional school under consideration prior to using such credits to replace requirements for admission to these schools.
2. While remedial or developmental courses are designed to move a student toward graduation by bringing him/her up to a level of preparedness to do college work, they do not apply toward graduation credit. See section entitled "Developmental Non-Credit Courses" concerning developmental non-credit courses.
- II. At least 25 percent of the credit hours required for any degree program must be earned in course work at Lipscomb University. In addition, the last 30 hours of work on a degree must be done in residence at Lipscomb except upon written approval of the associate provost for student academic support. A student will not be allowed to take a correspondence course, a special examination or CLEP examination during the last 30 hours of residency without petitioning the registrar. Special permission of the dean of the appropriate college will be required.

- III. A candidate for a degree must successfully complete the senior seminar and/or special standardized examinations and respond to institutional surveys where these are specified by the university or the department in which the candidate is majoring.
- IV. All incomplete grades must be completed, all transfer of credit made, and all correspondence and extension course grades must be received in the registrar's office by Friday prior to graduation.
- V. No candidate will be recommended for a degree without having fulfilled the SALT requirements. For details, see guidelines in the section above.
- VI. No candidate who is placed on probation or who remains on probation (academic, chapel, disciplinary) during his/her final semester of work at Lipscomb will be allowed to graduate.
- VII. All candidates for degrees must be of good moral character.
- VIII. A candidate for a degree must have his/her account paid in full before a degree can be granted, including the graduation fee which is paid by all graduating students.
- IX. Students must register for GN 999X the semester all course work will be completed for graduation. Students who do not file their intent to graduate form in the registrar's office by the end of the first week may be delayed in graduating. (Students who miss this deadline may not qualify for graduation honors.)
- X. All Dec. and May undergraduate candidates must participate in the formal graduation exercises. Aug. graduates may petition to "walk early" with the May class or participate later in the Dec. exercise. For the petition to be considered, the graduate cannot be on probation and must have an overall GPA of 2.2 as well as a 2.2 GPA in his/her major and minor. Petitions are due in the registrar's office by Feb. 15.

Although some students change career goals, leave school or transfer, 64 percent graduate from Lipscomb within six years of beginning university work for the most recently reported cohort year, 2007. The collective average for Tennessee Board of Regents universities is about 48 percent.

Second Bachelor's Degree

It is not generally in the best interest of a student to complete a second bachelor's degree. In those cases, however, where a student chooses to do so, the following information is pertinent:

1. The student must declare the intent to pursue a second degree to the registrar and have an approved plan on file in that office. (Graduation honors are not applicable to students completing a second bachelor's degree.)
2. The plan for a second degree must include a minimum of 33 hours (earned above the hours for the first bachelor's degree) in residence at Lipscomb University with a minimum of 24 upper division hours in the major in residence, in addition to general education degree requirements. (No minor is required.)
3. All general education credits earned while completing a bachelor's degree at another institution must be approved by the university credentials analyst and the registrar before such credit will be given toward a second bachelor's degree at Lipscomb. This approval is waived (except Bible) if the first degree was earned at a regionally accredited institution.
4. In no case is the completion of two or more majors or other degree requirements in the course of completing the first bachelor's degree to be confused or equated with the completion of two degrees.

Statute of Limitations

Curriculum requirements often change and academic programs are frequently enhanced. Students should review the statement concerning modifications found on the title page of this bulletin.

A student is permitted to satisfy requirements for a bachelor's degree under any curriculum in effect during the student's attendance at Lipscomb University, provided the curriculum has been in effect within 10 years of the date of graduation. All requirements for major, minor and general education must come from the same catalog. Discontinued courses or programs may necessitate substitutions or additions by the academic chair in consultation with the registrar.

Correspondence Courses

Any correspondence work must be approved by the university. This approval will usually include the academic chair involved, the registrar and the College of Education if the course is required for teacher certification. Forms for these approvals are available in the Office of the Registrar.

Independent Studies

Independent studies are intended to be guided independent educational experiences which are initiated primarily by the student.

The following minimum guidelines apply to all independent studies/readings courses taken at Lipscomb. Academic departments may maintain additional requirements and issue instructions to faculty and students to implement the requirements stated here. Additionally, academic departments must determine which candidates are suitable for independent studies, which activities are appropriate for such credit, the schedule of meeting times, and performance criteria, among other considerations.

1. A student desiring an independent study must submit a proposal to the academic chair. Registration cannot occur without the prior approval of the academic chair. The academic chair will coordinate procedures with the registrar to prevent unapproved special studies.
2. Proposals for independent studies must address each of the following topics:
 - a. Material to be covered, research to be performed and credit to be awarded.
 - b. Schedule of meeting times.
 - c. Performance criteria and method of evaluation.

Normally, the student who desires to undertake an independent study will approach the directing professor and together they will prepare a proposal for the study. After they have both signed the proposal, they will seek the academic chair's approval. When that approval is granted, the proposal becomes a contract between the student and the department. Any deviations from the approved proposal must be approved by the directing professor and the academic chair.

Special Examinations (Challenge Procedure)

Although the university does not encourage the use of special examinations, there are situations (e.g., extraordinary experience) in which it seems advisable to allow a student to challenge a course by special examination. This may be either for credit or without credit. In no case should a student expect to challenge a lower-level course in a discipline for which he/she has previously earned advanced level credit. Further information concerning special examinations is available in the registrar's office. A fee is charged. A student may challenge a particular course only once and cannot challenge a course which he/she has failed or a course in which he/she has been officially enrolled, i.e., it appears on his or her transcript.

Advanced Standing Credit

Advanced standing examinations such as CBAPE, IB, EB and CLEP may be used to establish maximum credit of 30-semester hours. In establishing credit for these examinations, attention will be given not only to the score but to the scholastic record of the student, any special merits of the examination paper and perhaps a personal

interview. Such credit will be granted in an area only if no college work in that area has been taken (enrolled in or attempted). No letter grades will be assigned to the credit earned by examination. Students interested in taking CLEP examinations should check in the registrar's office for guidelines prior to taking the tests. A fee is charged. The CLEP examination in each individual subject can only be taken once.

AP Credit at Lipscomb

<i>Advanced Placement Subjects/Tests</i>	<i>Score of 3</i>	<i>Score of 4</i>	<i>Score of 5</i>	<i>Max. Credit</i>
American Gov./Pol.	PO 1023	Same as 3	Same as 3 & 4	3
Comparative Gov./Pol.	PO 3133	Same as 3	Same as 3 & 4	3
American History	HI 2213	HI 2213, HI 2223	Same as 4	6
European History	HI 1113	HI 1113, HI 1123	Same as 4	6
World History	HI 1013	HI 1013, HI 1023	Same as 4	6
Macroeconomics	EC 2513	Same as 3	Same as 3 & 4	3
Microeconomics	EC 2503	Same as 3	Same as 3 & 4	3
English Lang. and Comp.*	EN 1113	EN 1113, EN 1313	Same as 4	6
English Lit. and Comp.*	EN 1113	EN 1113, EN 1313	Same as 4	6
Art History	AR 1813	Same as 3	Same as 3 & 4	3
Studio Art- 2-D Design*	AR 1033	Same as 3	Same as 3 & 4	3
Studio Art- 3-D Design*	AR 1033	Same as 3	Same as 3 & 4	3
Studio Art-Drawing*	AR 1033	Same as 3	Same as 3 & 4	3
Music Theory	No credit	MU 1111, MU 1133	MU 1111, MU 1121 MU 1133, MU 1143	8
French Language	FR 1114, FR 1124	FR 2114	FR 2124	16
German Language	GE 1114, GE 1124	GE 2114	GE 2124	16
Spanish Language	SN 1114, SN 1124	SN 2114,	SN 2124	16
Statistics	MA 2183	Same as 3	Same as 3	3
Calculus AB*	MA 1314	Same as 3	Same as 3	4
Calculus BC*	MA 1314	Same as 3	MA 1314, MA 2314	8
Computer Science AB	CS 1213	Same as 3	CS 1233	6
Biology*	BY 1003	BY 1003	See Dept. Academic Chair	3
Environmental Science*	BY 1003	BY 1003, or BY 1013, or ESS 1013	Same as 4	3
Chemistry	CM 1113, 1211	CM 1113, 1211 CM 1123, 1221	Same as 4	8
Physics B*	PH 1013	PH 1013, PH 1214	PH1214, PH1224	8
Physics C- Mech.*	PH 1013	See Dept. Academic Chair	See Dept. Academic Chair	3-4
Physics C- Elec./Mag.*	PH 1013	See Dept. Academic Chair	See Dept. Academic Chair	3-4
Psychology	PS 1113	Same as 3	Same as 3 and 4	3
Human Geography	HI 3323	Same as 3	Same as 3	3

*Only one test will be used to grant credit when the same course credit is associated with different tests.

CLEP Credit in General Exams

- A. English Composition (No. 1 in CLEP Manual)—No credit.
- B. Humanities—No credit will be granted if prior college work has been taken in any of the test areas.
- C. Mathematics—credit general education requirement in Mathematics (3 sem. hrs.).
- D. Natural Sciences (3 sem. hrs. maximum)
1. Credit BY 1003, Fundamentals of Biology or
 2. Credit 3 hours of physical science
- E. Social Science and History (meets social science requirement, not history requirement).

On B-E above, maximum credit of one entry level course will be awarded if a score of 50 is attained. **No credit will be granted if prior college work has been taken in any of the test areas.**

CLEP Credit in the Subject Examinations

Area/CLEP Subject Exam	University Course	Req. Min. Scaled Score
<i>Composition and Literature</i>		
American Literature	Survey of American Literature	50
English Literature	Survey of English Literature	50
College Composition	EN1113 Freshman Comp. & Reading I or 3 hours elective credit	55
<i>Foreign Languages</i>		
College French (Level I)	FR1114	48
College French (Level I)	FR1124	52
College French (Level II)	FR2114	56
College French (Level II)	FR2124	62
College German (Level I)	GE1114	48
College German (Level I)	GE1124	52
College German (Level II)	GE2114	56
College German (Level II)	GE2124	63
College Spanish (Level I)	SN1114	48
College Spanish (Level I)	SN1124	54
College Spanish (Level II)	SN2114	60
College Spanish (Level II)	SN2124	66
<i>History and Social Sciences</i>		
American Government	PO1023 Introduction to American Government	50
History of US I: to 1877	HI2213 History of U.S. I	50
History of US II: 1865 to present	HI2223 History of U.S. II	50
Human Growth and Develop.	PS 2423 Life Span Development	50
Intro. to Educational Psychology	PS 3243 Human Development and Learning	50
Principles of Macroeconomics	EC2513 Principles of Macroeconomics	50
Principles of Microeconomics	EC2503 Principles of Microeconomics	50
Introductory Psychology	PS1113 Introduction to Psychology	50
Introductory Sociology	SO1123 Introduction to Sociology	50
Western Civilization I: Ancient Near East to 1648	HI1113 Foundations of Western Civilization to 1600	50
Western Civilization II: -1648 to present	HI1123 Foundations Western Civilization since 1600	50
<i>Mathematics and Science</i>		
Calculus with Elem. Func.	MA1314 Calculus I	50
College Algebra	MA1113 College Algebra	50
Pre-Calculus	MA1123 Trigonometry	50
General Biology	BY1003 Fundamentals of Biology	50
General Chemistry I	CM 1113 General Chemistry I	50
	CM 1211 General Chemistry I Lab	50
General Chemistry II	CM 1123 General Chemistry II	75
	CM 1221 General Chemistry II Lab	75
<i>Business (see Dean of College of Business)</i>		
Principles of Management	MG 3503 Principles of Management	50
Financial Accounting	AC 2503 Financial Accounting	50
Intro. Business Law	MG 3613 Legal Aspects of Business I	50
Principles of Marketing	MK 3503 Principles of Marketing	50

Note: As specified in the section "Requirements for Graduation," a maximum of 33 semester hours of credit will be allowed on a combination of correspondence courses, extension courses, special examinations, advanced placement credits and equivalency credits.

International Baccalaureate (IB) Credit Policy

The Office of Admissions in consultation with the provost awards IB credit, generally, according to the following policy:

- Some of the examinations must be the higher level. A score of 4 or 5 is awarded credit.
- A score of 5 is awarded credit at the standard level.
- Other factors are to be considered when awarding IB credit.

European Baccalaureate (EB)

Credit for EB will be determined on a case-by-case basis.

Note: Although there are several ways of earning credit by the non-traditional route (IB, AP, CLEP, Special Examination, Equivalency Credit and correspondence course), credit received from one source may not be duplicated by another. The maximum credit for any combination of credit by examination, such as IB, AP, and CLEP, is 30 hours, whereas the maximum credit for credit by the non-traditional route is 33 semester hours.

Equivalency Credits

Equivalency credits (such as credit for special institutes [including institutions not regionally accredited], supervised travel experience and credit for formal military courses as recommended by the American Council on Education) will be evaluated on their individual merits according to the nature and extent of the experience and the recommending department, institution or accrediting agency.

Adult Degree Program students and those with at least four years of military or work experience may be eligible to seek Lipscomb University credit hours for college-level learning experienced outside the classroom. Interested students should contact the College of Professional Studies (Ezell 265) to begin the process.

Developmental Non-Credit Courses

Remedial or developmental courses are designed to move a student toward graduation by bringing him/her up to a level of preparedness to do college work. They do not apply toward the graduation GPA or graduation credit. Developmental courses benefit the student by being officially counted as part of the load and determining eligibility for financial aid and/or scholarships.

Transfer Credit from Other Colleges or Universities

Students transferring to Lipscomb University from other colleges or universities must have an official transcript of their work from each school mailed to the admissions office. Courses are generally accepted in transfer if earned at a regionally accredited college or university and if they are comparable to courses offered at Lipscomb or commonly regarded as study in the liberal arts. All other course credits (earned in a non-traditional manner) are subject to evaluation by the registrar and/or academic chair on

a course-by-course basis. Moreover, the grade of “C” or higher must have been earned on each course in transfer. Evaluation of these transcripts is made in the admissions office with final approval made by the registrar. Transferred work to be counted toward a major or minor must be approved by the academic chair involved and the registrar. Transferred courses accepted to meet part of the general education requirement must be approved by the registrar. Courses taken at a two-year school which have 3000 or 4000 course numbers at Lipscomb generally will not transfer as equivalency credit.

No more than 63 semester hours may be transferred from a two-year school. Some two-year colleges offer a third year of work in special areas. Ninety-four semester hours is the maximum number of hours that may be transferred to Lipscomb.

Work taken by a student at another college or university after the student’s initial enrollment at Lipscomb University may not be accepted unless the student has received approval to transfer this work before the work is begun. Forms for this approval are available in the registrar’s office. For minimum credit hour requirements of transfer students toward graduation, see II under section entitled “Requirements for Graduation.”

Limitations of Transfer Credit

1. Students will not be allowed to transfer more credits per term than they would have been permitted to earn at Lipscomb.
2. Credit must be from a regionally accredited institution.
3. Only courses with the grade equivalent of “C” or higher are candidates for transfer credit.
4. Technical or vocational credits are not eligible for transfer and may not, therefore, be used to satisfy degree requirements.
5. All credits from Lipscomb University may not be transferable to every educational institution. Students wishing to transfer credit to another college or university should contact that institution.

Credit by Examination for Transfer Students

Credit awarded by other institutions for International Baccalaureate (IB), European Baccalaureate (EB), Advanced Placement (AP) and College Level Examination Program (CLEP) must be reevaluated to determine if (and how much) credit will be awarded by Lipscomb policy. Students desiring credit by exam should have the official IB, EB, AP or CLEP credit transcript sent directly to the Office of Admissions, Lipscomb University, One University Park Drive, Nashville, TN 37204-3951.

Letter Grading System and Quality Points

All work in the university is graded by letters. Each letter is in turn assigned a quality-point value according to the list provided below. For example, a letter grade of “A” carries a quality-point value of four quality points per semester hour. If the student makes an “A” in a three-hour course, the total number of quality points earned for this course would be twelve quality points.

The overall grade-point average for each student is determined by dividing the number of quality-points earned by the total number of hours attempted. Only work taken at Lipscomb University is included in the computation. Neither advanced placement nor transfer credit may be used to raise the grade-point average.

In the case of courses repeated at Lipscomb, only the highest grade will be used in determining the grade-point average. The hours attempted will be used only once. For duplicated work, that is, for any course taken both at Lipscomb and another school, the grade of the Lipscomb course will always be used in computing the student’s GPA.

Thirteen different letter grades are used to record a student’s progress toward graduation. Some of the letter grades do not count for credit toward graduation, and some are used in computing the necessary grade-point averages for graduation. The following matrix summarizes these grades, and a brief description of each grade follows.

- A: Superior work, exceptional quality; earns 4 quality points per hour.
- B: Good, above the average expectation; earns 3 quality points per hour.
- C: Average, about the quality expected of most students; earns 2 quality points per hour.
- D: Barely passing, earns 1 quality point per hour. (Courses with a letter grade of “D” normally do not transfer from one institution to another.)
- F: Failing, no credit; earns no quality points.
- I: Incomplete, no credit unless completed later with passing grade; computed as “F” in grade-point average until the grade is made up. (See paragraph on incomplete grades.)

IP: IP grades are given only on approved courses, such as master’s theses, honors theses and certain practicums. A grade must be established by the end of the next full semester after the IP grade has been given. A student who does not return to Lipscomb University will automatically receive an “F” on all IP grades after one year. Any variation of these policies must be approved by the Academic Leadership Team.

NC: No credit; used in English 0110 and 1113, Lipscomb Seminar 1103, and Math 1020 and 1030 when the grade is below a “C” and is not computed in student’s average. The faculty reserves the right to assign an “F” if, in the opinion of the teacher, the student has put forth little, if any, effort.

P: Passing—A, B, C or D; used when a course is completed successfully but without any credit. Examples: all zero credit courses.

S: Satisfactory—A, B, C; used when credit is earned in nontraditional ways, such as credit by examination or in special cases where a course is not included in computation of grade-point average. (See paragraph below on audits and non-credit repeats.)

U: Unsatisfactory—D or F, used when credit is not earned in a course not to be included in computation of grade-point average.

W: Withdrew officially; not computed in grade-point average. Used whenever official withdrawal occurs: 1) from specific course(s) at the initiative of the student anytime during the designated withdrawal period of a term (see calendar); 2) from all course work in the event that a student is unable to complete a term due to reasons of personal choice, health problems, disciplinary actions or other reasons approved by the university such that the student is formally dissociated from the institution via processing in the registrar’s office; and also may be assigned by the registrar or the provost after the official last day to drop where there are extenuating circumstances, such as an extended illness.

X: Audit, not computed in grade-point average. There is a tuition charge but no credit is earned. (See paragraph on audits and non-credit repeats.)

Mid-term “D” and “F” grades are available on the Web to students during the fall and spring semesters. Final grades are available on the web at the end of each semester. Once grades have been posted to the student’s record in the registrar’s office they are considered permanent.

		Used in Computation of Grade-Point Average	
		Yes	No
Credit	Yes	A,B,C,D	S
	No	F,I	IP,NC,P,U,W,X

Student Grievance/Complaint Process

A student wishing to lodge a complaint about any university office or service is invited to follow the procedures outlined in the Student Handbook, available on the Lipscomb website. If the complaint or grievance is related to a specific course or instructor, the matter should be addressed first with the instructor. If that interaction is unsatisfactory, the student should take the complaint to the academic chair. Should the concern remain unresolved, the student may directly contact the office of the associate dean of the college in which the department resides. Any further appeal must be made in writing to the dean of the college and the director of student advocacy.

After completing the above procedure, any appeal of a course grade must be filed in the provost's office within 60 days following posting of the grade to the student's record. In no case may a student appeal a grade that has been recorded on the transcript for as long as twelve months.

In accordance with the university's commitment to academic freedom, students are encouraged to examine all pertinent data, question assumptions, and guided by the evidence of research, freely study the substance of each academic discipline. Any student who perceives that this right has been violated may file a formal written grievance through the provost's office.

Incomplete Grades

Incomplete grades should be assigned only if the final exam (or some work of equivalent significance) was missed for a good reason. Students who fail to complete other (routine) assignments should not receive incomplete grades but should be assigned letter grades that reflect the quality and quantity of their work completed during the regular semester.

In cases where the grade "I" is given, a grade must be established within the first three weeks of the succeeding semester in residence or the grade automatically becomes "F." An extension may be petitioned by the student, but such extensions must be: 1) initiated by the student and 2) approved by the instructor, academic chair, and dean of the college, in that order. A student who does not return to Lipscomb University will automatically receive an "F" on all incomplete grades after one year. Any variation of these policies must be approved by the Academic Leadership Team.

Audits and Non-Credit Repeats

In addition to the usual registration for credit and regular grade computation, a student may wish under some circumstances to register as an auditor. In this case, regular tuition is charged but no credit is earned. The student may participate in the course to whatever extent he/she wishes insofar as tests, reports, papers and other assignments are concerned. With permission of the instructor, a student may change his/her registration in a course from credit to audit or from audit to credit during the first four weeks of the semester. After this time his/her only options are to continue as registered or to withdraw from the course.

Repeated courses are counted the same as regular courses in determining maximum student loads and in determining full-time student classification. The U.S. Department of Veterans Affairs will not allow audits or non-required repeats to be counted in determining load for pay purposes.

Academic Probation and Suspension

To graduate from Lipscomb University a student must have a minimum grade-point average of 2.0 overall as well as a 2.0 in the major and a 2.0 in the minor (if applicable).

Academic Warning

First-time freshmen (fewer than 30 hours transferred in) whose grade-point average for the first semester is below 2.0 will be placed on academic warning. This is a one-time warning available only to first-time freshmen. Students on academic warning who do not raise their grade-point average to 2.0 by the end of their next semester in school will be placed on academic probation. Students on academic warning will be required to participate in Turning Point, a program designed to assist students attempting to recover from difficult academic situations.

Academic Probation

All students must maintain a cumulative grade-point average of 2.0, including incomplete grades. Students whose cumulative GPA falls below 2.0 will be placed on academic probation for the following semester.

Students on academic probation should contact their academic chair (or associate provost for student academic support if the major is undeclared) for a meeting before classes start in order to complete a probation contract.

Students who do not sign a contract may return. However, students who are suspended at the end of that semester may lose the right to appeal their suspension if they have not completed a contract. The probation contract is a useful way to address the academic problems the student has encountered.

Students on probation who earn a term grade-point average of 2.0 or higher but fail to raise their cumulative grade-point average to 2.0 or higher may be considered for a one-semester extension of their probation.

Students on academic probation because of incomplete work can be removed from probation at any time the work is made up and a satisfactory GPA is recorded on the permanent record.

Students who are admitted on probation (transfers and returning students) will fall under the same guidelines.

Suspension

When a student's cumulative GPA falls below 2.0 for two consecutive semesters, or the student fails three-fourths or more of his/her work in a semester or is on two or more probations (academic, chapel, disciplinary), the student will

be automatically suspended. Suspended students may not enroll at Lipscomb the semester following their suspension. Students suspended at the end of the spring semester may not attend during summer and fall semesters.

Students may appeal their academic suspension by writing to the associate provost for student academic support. These requests should be mailed to the Office of the Associate Provost for Student Academic Support and received no later than 4:30 p.m. on the Monday of the week before classes begin for the term during which the student wishes to be readmitted.

Students suspended after the spring semester are not required to appeal their suspension before Maymester but must appeal their suspension before the start of other summer terms following the procedure previously stated.

Suspended students who miss the deadline for appealing will not be eligible to return that semester. Students whose appeals are approved will be required to sign a probation contract during the first week of classes.

Students who have been suspended only once may apply for readmission after being out of school for at least one fall or spring semester.

Students who are suspended a second time for academic reasons may not be readmitted until at least two full semesters (not counting summer session) have elapsed.

The above regulations are established to guarantee that a student is making satisfactory progress toward completing his/her college program of study. Exceptions to these regulations can be made only upon appeal in writing to the associate provost for student academic support. All probation and suspension policy guidelines are established by the provost and the Academic Leadership Team.

Horizons

Transitions Program

Transitions is designed to provide support for first-semester freshmen who are conditionally admitted to the university. A limited number of students will be accepted into the program each fall. Freshmen admitted conditionally will be under contract to participate in a structured program that will include UN 1101 Strategies of an Effective Learner. Participation in workshops, seminars and office visits with program coordinators.

Transfer students who are admitted on a probationary status may be required to enter a contractual arrangement tailored to specific needs and circumstances and may be considered for admission in any semester. In both cases, the student's performance will be evaluated after one semester, and the student may be released from the contract, asked to continue under a contract arrangement for another semester, or suspended from the university.

Turning Point

The Turning Point program is designed to assist freshmen who are attempting to recover from difficult academic situations. Participants will be expected to fulfill all program requirements, such as supervisory office visits with the director of the program (or another academic advisor), participation in tutoring labs and academic skills workshops, monitoring of class attendance and academic performance, and enrollment in UN 1101. Freshmen placed on academic warning are required to participate in Turning Point. Upperclassmen placed on academic probation for the first time may be required to enroll as a stipulation in their probation contract.

Early Warning System

The early warning system provides instructors an avenue for warning students who are approaching class absence limits or whose academic performance is deficient. Students may receive notification of such situations and may be encouraged to immediately contact the instructor. When students reach the maximum number of absences allowed in a course, they may be notified that the instructor has determined that they will receive a failing grade in that course, and they may be given an opportunity to appeal this decision.

Student Load—Credit Hours

Definition of credit hour: A credit hour (one) is defined as student/teacher interaction of not less than one hour and a minimum of two hours out of class work for 15 weeks (one hour/2/15).

Application: Since several courses and some programs are delivered in a variety of formats, including distance learning, the driving force for delivering a credit hour commences with identifying learning objectives that can be delivered in the one hour/2/15 formula as noted in the definition. Using the definition and formula as noted above, granting more than one hour of credit for a course requires using the formula and increasing the student/teacher interaction, etc., via the learning objectives for the equivalent amount of credit hours desired for the course.

In the fall and spring semesters, students may normally register for 12 to 18 hours, including repeats, non-credit courses and/or audits, without special permission. A student must take 12 hours to be considered full time. Students registering for more than 18 hours must have a 3.0 grade-point average, either overall or on the preceding semester. Any student attempting to register for more than 18 hours must contact the registrar's office to receive an override in the computer before registration is possible. No more than 21 hours will be credited for work done (including work at another institution) within one semester. It is recommended that students on academic probation register for 12 hours or less during the semester of probation. Fifteen hours is the maximum load for such students.

Because the summer session (10 weeks) is shorter and thus more intensified than a typical semester, it is necessary to place further restrictions upon the number of hours for which a student may register during that time. Specifically, a student may register for as many as 17 hours during summer session without special permission. Beyond that, the registrar's

permission is required, and no student's load may exceed 19 hours during the summer session (including work at another institution). (Total number of hours is calculated by adding all summer course work, i.e., single-term [five-week] courses, three- or four-week terms, and/or entire session [ten-week] courses.)

A student may repeat a course for the purpose of improving his/her grade. Only the higher grade will be used in computing the grade-point average. The grade earned in any previous attempt of the course at Lipscomb will remain on the permanent record. For courses duplicated at Lipscomb and another college, the "transfer" grade may not be used to replace a lower grade made at Lipscomb.

A student with a failing grade in a class can remove the effects of the "F" only by repeating the course and earning a higher grade on a course taken at Lipscomb. Demonstration of additional experience or improved proficiency may not be used to alter prior grade records.

The university reserves the right to change an instructor listed on a proposed schedule or to eliminate any course from the schedule due to inadequate enrollment.

Dropping Courses

Any course dropped within the first week of the semester will not appear on the permanent record. Any course dropped after the first week and until the last day to drop classes (see calendar) will be given a grade of "W." Any course dropped at any time without proper notification (Web drop or completed Drop/Add Form) to the registrar's office will be assigned the grade of "F."

During the official drop/add period, students will be able to drop or add on the Web. After that time, a drop/add form must be completed and accepted in the registrar's office in order to be official. The official drop date will be the transaction date indicated from the Web drop or the date the Drop/Add Form is accepted in the registrar's office.

Class Standing

The completion of 30 semester hours classifies a student as a sophomore; 60 hours classifies one as a junior; and 90 hours classifies one as a senior.

Class Attendance

Regular class attendance is expected of all students enrolled at Lipscomb University. The classroom experience is considered an integral part of the university's educational program, and students should not register for classes unless they plan to attend regularly.

Any student who misses the equivalent of three weeks of any course may be dismissed from the course: further class attendance will be prohibited and a failing grade will be assigned. (Individual departments and/or faculty have the prerogative to establish a tolerance limit of less than three weeks.)

Readmission to the class is by approval of the academic chair. A copy of the letter of dismissal to the student may be sent to the payer of the student's bill where approval has been given according to the student's FERPA rights. The appeal for readmission must be made within one week from the day the notice is mailed to the student. During the appeal interim, the student may not resume class attendance unless the instructor determines that unusual circumstances warrant it. If the appeal is not approved, further class attendance is prohibited and a failing grade will be assigned.

Students who are removed from classes due to excessive absences and who do not appeal for readmission will be assigned a failing grade at the end of the semester.

Study Day and Last Week of Classes

For full semester courses, no test or major assignment is to be given within one week of the final examination. For example, for a class that has a final on Tuesday, the last day a test could be given or a major project due would be the Tuesday of the last week of classes. (It is suggested that when possible, the last week of classes be left free of any exams or major projects.) During the fall and spring semesters, the Thursday before final examinations begin is a study day—no classes will meet. Full-time faculty are requested to be available to students on this day. Adjunct faculty should be as accessible as possible on this day.

Final Examinations

A schedule of final examinations will be determined by the registrar. This schedule is to be followed unless prior approval for change is obtained from the registrar. Under no circumstances may examinations be given earlier than the beginning of the regular testing period as designated by the registrar. Missed final examinations may be made up only when arrangements have been made with the instructor in advance or when illness can be verified with a physician's excuse.

Graduation Honors

Honor graduates awards are presented at commencement. The valedictorian award is given to the graduating student with the highest grade-point average, and the salutatorian award is given to the student with the second highest grade-point average. If more than one student earns valedictorian honors, no salutatorian is named. (Graduation honors are not applicable to students completing a second bachelor's degree.) **(Effective fall 2015 commencement, valedictorian and salutatorian designations will no longer be awarded.)**

Students who have accumulated a grade-point average (GPA) of 3.90 or above will graduate *summa cum laude*. Students who have accumulated a grade-point average between 3.70 and 3.89 will graduate *magna cum laude*, and students whose accumulated grade-point average is between 3.50 and 3.69 will graduate *cum laude*. Honors are calculated at the end of the student's next-to-the-last semester. In calculating honors, all previous college work will be included. However, work taken at other institutions cannot raise the GPA calculation for honors, but it can

lower it. For example, a student who transfers one course of three semester hours' credit with a grade of "C" and then completes the remaining 123 hours required for graduation at Lipscomb University with a grade-point average of 3.50 cannot graduate cum laude since the overall grade-point average including the three hours of "C" transferred would result in a gpa lower than 3.50.

Also, students who may appear to be tied for top graduating honors may actually be separated by the fact that one student has repeated a course (at Lipscomb or any other postsecondary institution) in which a lower grade was originally made. The student who has not repeated such a course would be considered above the student who has repeated a course. Students who expect to qualify for graduation honors may want to check with the registrar's office during the beginning of their senior year.

(Effective fall 2015 commencement, the following criteria will be used to establish eligibility to receive graduation Latin honors of cum laude, magna cum laude and summa cum laude:

- a. **Graduation Latin honors (cum laude, magna cum laude and summa cum laude) are based only on grades earned at Lipscomb University.**
- b. **A student must complete a minimum of 63 hours of course work (toward the degree being conferred) at Lipscomb University in order to be eligible to receive Latin honors designation.)**

Provost's List and Honor Roll

To qualify for the Provost's List, a student must be classified as full time (twelve earned hours minimum) and achieve a 4.0 grade-point average for the semester. To qualify for the Honor Roll, a student must be classified as full time and achieve a 3.5 or higher grade-point average for the semester.

Teacher Education

The teacher education program at Lipscomb University is approved by the Tennessee State Board of Education and is nationally accredited by the National Council for Accreditation of Teacher Education (NCATE), which has become the Council for Accreditation of Educator Preparation (CAEP). Programs are offered leading to licensure in grades Pre K-3, K-6, 4-8, 7-12 and K-12.

The teacher education program at Lipscomb University utilizes a variety of methods for assuring excellence in teacher preparation. Collaboration with local public and private school systems assures that Lipscomb students have practical, hands-on experiences as they acquire knowledge and skills, and study educational theories, current research and sound professional practice. The teacher education program is a campus-wide program that involves all departments in an integrated approach that prepares a well-rounded student. Students are supervised and evaluated on an on-going basis to assure a quality program.

The teacher education conceptual framework, C.A.R.E., is explained and illustrated in the Teacher Education Handbook. Specific admission standards, program objectives, and evaluation procedures are also listed in the handbook.

For information concerning requirements, admission to teacher education and a list of approved programs, contact the College of Education. All requirements are subject to change as mandated by the state of Tennessee.

Global Learning

Globalization requires an education that cultivates global competencies among our students. We are no longer just a citizen of a city, state or nation, but of a world that is much larger and more connected than at any time in our civilization. To equip our students to be global citizens, we encourage participation in a global learning program as a significant experience in their education.

Nowhere on our campus will students find an experiential classroom that compares to the adventure of studying abroad. Through these international experiences, students broaden their worldview, experience different cultures and expand how they engage the global community. In support of these goals, Lipscomb University offers several meaningful programs that are spiritually formative, community engaging and experiential in nature. Students may select from the following programs:

- **Global Scholar** - semester-long immersion with a general education focus.
- **Global Apprentice** - experiential summer sessions concentrating on upper-division courses that are major and vocation specific.
- **Global Ambassador** - not for academic credit, but take place during the spring, winter or summer breaks.

The Lipscomb faculty and Office of Global Programs are working to add new opportunities and destinations every school year. If you are interested in traveling to a specific destination not currently listed, please contact the Office of Global Programs.

Student demand for these programs is high. Please register early! Students should also consult with the Office of Global Programs to verify which course credits they will earn during the program they select.

Lipscomb's Global Scholar Programs:

- Lipscomb in Europe - Vienna (fall/spring)
- Lipscomb in Britain - London (fall/spring)
- Lipscomb in Latin America - Santiago (spring)

Here is a list of where our students have traveled over the last two years and where they are headed next!

Argentina, Austria, Australia, Belgium, Canada, Chile, China, Costa Rica, Dominican Republic, England, France, Germany, Ghana, Guatemala, Greece, Haiti, Honduras, Hong Kong, Israel, India, Ireland, Italy, Jamaica, Moldova, Nevis, Peru, Poland, Scotland, Spain, Switzerland and Uganda.

Partnership Study Abroad Opportunities

- Oxford Honors Program, England (full semester)
- Latin American Studies Program, Costa Rica (full semester)
- Australia Studies Program (full semester)
- China Studies Program (full semester)
- India Studies Program (full semester)
- Uganda Studies Program (full semester)
- Middle East Studies Program (full semester)
- Angers, France (French Immersion, 4-8 weeks)
- Chicoutimi, Québec (French Immersion, 4-8 weeks)
- Toledo, Spain (Spanish Immersion, 4-8 weeks)

Criteria for Participation in International Programs

All Lipscomb campus rules and policies apply to participants in global learning programs. Deviations from rules and policies may result in disciplinary action, including dismissal from the program without refund.

Students who wish to participate in a mid-length or short-term global program should work with the college sponsoring the program and must complete an application, pay the required deposits by the due dates, and attend the required orientation meetings. Some programs require other criteria to be met. For a complete listing of current mid-length and short-term global program, visit the web at globallearning.lipscomb.edu and click on “programs.”

Students who wish to participate in a semester-long global learning program must meet the following criteria:

1. They must have completed at least two full-time semesters by the beginning of the semester of participation.
2. They must have at least a 2.5 GPA at the time of the application and maintain a 2.5 GPA for the two semesters preceding their participation in the global learning program.
 - If the GPA is below 2.5 at the end of the second semester, the student will be reviewed for continuance in the program.
 - If the GPA is below 2.5 at the time of application, the student will be put on the program's wait list.
 - If the GPA is at least 2.5 at the end of the second semester, the student will be moved from the wait list to the program list, if space permits.

- If the GPA is still below 2.5 at the end of the second semester, the student may not be admitted to the program.

3. They must be approved by the Global Programs Committee, whose approval is based on the application, two letters of recommendation, an interview and a demonstrated willingness to abide by Lipscomb rules and policies regarding academics and behavior.

Curriculum for Global Learning Semester-Long Programs

In semester-long programs, students take a total of 12-18 hours

Core courses, 6-7 hours:

- GL 120V The Cross Cultural Experience, 3 hours (counts as integrated social science credit for general education)
- Language, 3-4 hours of language of program location (counts toward B.A. language requirement)

Optional courses, consistent with global learning objectives vary by site from year to year. A list for any specific program is available from the Office of Global Learning.

Sample optional courses:

- HU 2003 World Humanities I, 3 hours (counts as integrated history general education requirement)
- HU 2013 World Humanities II, 3 hours (counts as integrated history general education requirement)
- GL 1203 City as Text, 3 hours (course content varies)
- Discipline specific course offered abroad by Lipscomb University faculty member, 3 hours (course content varies)
- PE 160V Lifetime Fitness for Global Learning, 1 hour (counts as P.E. general education requirement)
- Literature centered on literature of the program location, 3 hours (counts as literature general education requirement)
- Science, tailored to science-related issues of the program location, 3 hours (counts as science general education requirement)
- Online courses offered by Lipscomb University, 3 hours (course offerings vary by semester)

Curriculum for Global Learning Mid-length and Short-length Programs

The courses offered during the mid-length and short-term programs vary from year to year and are available from the Office of Global Learning. For more information about our partnership with the Mid-Continent Consortium for International Education (MCCIE), contact the Office of Global Learning. A complete listing of all programs available through the Council for Christian College and Universities (CCCU) and their academic content may be accessed at www.BestSemester.com.

Scholarships and Financial Aid

Lipscomb University institutional financial aid may only be applied to Lipscomb University institutional semester-long programs. Other financial aid such as Pell Grants or loans may be applied to most programs listed here. Mid-length and short-term Global Learning program prices are already maximally discounted, and other Lipscomb University institutional discounts and scholarships may not be applied on top of the discounted price. Presidential Weekend vouchers may be applied in full to Lipscomb University institutional programs of 12 hours or more and is prorated at \$500 for Lipscomb University institutional programs of less than 12 hours.

First Year Program-Liberal Arts

The following list of a first-year program is provided as an example only. Each student entering Lipscomb University is assigned a special advisor from the university faculty. Individual programs for students are then developed at the beginning of each semester. It is the student's responsibility to arrange appointments to meet with the advisor. Bachelor of Arts candidates and undecided students are strongly encouraged to enroll in a foreign language during their first two semesters.¹

General Liberal Arts

	F	S
Lipscomb Seminar 1103	3	
Bible 1073, 1083	3	3
English 1313		3
Foundations Science/Math	3-4	3-4
Wellness	2 or 2	2
Communication 1003/Electives ²	3 or 3	3
Integrated History/Social Science	3 15-18	3 15-18

¹ Those who earned As or Bs in a high school foreign language course should consider continuing language study while those skills remain current. Check with the Department of Foreign Languages about CLEP testing, credit and placement.

² Should be selected from general education requirements or from the major field. Students who are pursuing the Bachelor of Arts degree are encouraged to take the foreign language sequence (1114, 1124) during the freshman year.

Preprofessional Curricula

Lipscomb University offers several preprofessional programs and partnerships. See below for information about specific programs.

Students pursuing professional degrees beyond the bachelor's degree should consult with the program they wish to attend.

Medically-Related Preprofessional Programs

Detailed lists of prerequisite courses for each of the health care professional areas are available in the Health Professions Advisory Office and the offices of the chairs of biology and chemistry (see page 112 for more information). Students interested in specific admissions requirements to the Lipscomb College of Pharmacy should refer to the College of Pharmacy section.

Nursing

Lipscomb University offers a Bachelor of Science in Nursing (B.S.N.) degree. This program prepares the student for a career in the health care field as a registered nurse upon successful completion of the National Council Licensure Examination (NCLEX). The Lipscomb B.S.N. degree is explained in the departmental section for the School of Nursing. For questions or more information about the nursing program, please call 615.966.6650. Information is also available at lipscomb.edu/nursing.

Degrees Conferred for Work Completed in Other Institutions

Certain three-year programs can qualify a student for the baccalaureate degree at Lipscomb University upon the satisfactory completion of the first year of professional school. A student must complete all general education requirements for the B.A. or B.S. degree, a minimum of 18 hours toward a major, and approximately 90 semester hours during the three years at Lipscomb.

Three-One Programs in Medically-Related Areas

The three-one program in medicine and medically-related studies applies to students who wish to receive a Bachelor of Science or Bachelor of Arts degree from Lipscomb and to receive professional training in one of the medical professions such as medicine, dentistry, pharmacy, optometry, physical therapy, occupational therapy, chiropractics, nursing, veterinary medicine and others where the level of instruction is at the bachelor's level or higher. (Junior college level or other two-year programs do not qualify.) In order to receive the Bachelor of Science degree from Lipscomb the student must:

1. Complete all general education requirements for a bachelor's degree listed in the Lipscomb catalog.
2. Complete 18 semester hours toward a major.
3. Complete approximately 90 semester hours at Lipscomb. (Transfer students must complete 33 semester hours at Lipscomb in addition to the work transferred to Lipscomb.) A total of 126 semester hours (Lipscomb plus professional school) is required for graduation.
4. Successfully complete ("C" average or higher) one full year of work at a medically related professional school. This work will be transferred back to Lipscomb as the senior year work.
5. Complete all surveys and standardized examinations required by the university. To avoid returning to campus after transferring, these exams and surveys should be taken during the student's last semester in attendance at Lipscomb.

No student may graduate until Lipscomb receives all necessary transfer work or official verification of the completed work from the cooperating institution. Students

should keep this in mind when making plans to graduate from Lipscomb in a particular semester.

Should a student in any of the three-year programs fail to satisfactorily complete the work at the professional school, he/she must return to the Lipscomb campus for the completion of degree requirements. In such cases, the registrar's office should be consulted.

Summer and Wintermester Academic Programs

Lipscomb University provides academic programs throughout the year. In addition to the fall and spring semesters, academic courses are offered during summer months and between fall and spring semesters. During the summer students can take academic courses in a variety of schedule options, including Maymester (three weeks), Junemester and Julymester (four weeks), Term I and Term II (five weeks) and full term (ten weeks). Lipscomb also offers courses during Wintermester, a compressed term offered between the end of the fall semester and the beginning of the spring semester. The specific class meeting schedules for Wintermester courses will vary based on course requirements. Wintermester courses can begin as early as the Friday before fall graduation and end the Sunday before the spring semester begins.

These additional terms offer students various academic opportunities, at both the undergraduate and graduate levels, to catch up or get ahead in their curriculum. Because of the unique course scheduling opportunities during these additional academic terms, Lipscomb is able to offer innovative courses that are not available during the regular fall and spring semesters. In addition, some courses offered in summer and Wintermester are not available at other universities in the Nashville area during these terms. Course selection options typically include general education courses, core course requirements for majors, online courses, and both domestic and international travel courses.

High school students may take advantage of Lipscomb's academic programs during most academic terms by taking courses through our dual enrollment program. For more information on dual enrollment courses, contact Rob Mossack, director of academic advising, at 615.966.6297 or at dualenrollment@lipscomb.edu.

Rising high school seniors may also apply to enroll in Summer Scholars, a 10-day residential summer program designed for high-achieving students, for which they receive college credit in one of the academic areas offered. For more information about this program, contact Johnathan Akin, associate director of admissions, at 615.966.6150 or johnathan.akin@lipscomb.edu.

More detailed information about Lipscomb's summer and Wintermester programs may be viewed on the Web:
summerprograms.lipscomb.edu
wintermester.lipscomb.edu

Transcripts

Requests for transcripts should be made through the registrar's homepage via the Lipscomb website (www.lipscomb.edu). Such requests should be submitted at least a week before the transcript is needed. All final decisions on the issuance of transcripts will be made by the registrar. No transcripts will be issued until all accounts with the university have been satisfactorily settled. There is a \$5.00 fee per official transcript.

Air Force Reserve Officer Training Corps (AFROTC) Participation

Students may participate in the Air Force Reserve Officer Training Corps (AFROTC) at Detachment 790 on the campus of Tennessee State University. AFROTC provides pre-commissioning training to college students (male and female) who desire to serve as officers in the U.S. Air Force (USAF).

High school students may also apply for the AFROTC College Scholarship Program online at www.AFROTC.com. The application deadline is typically Dec. 1 of the senior year. Detailed eligibility requirements are available on the AFROTC.com website.

As AFROTC cadets, the majority of students will earn scholarships that may cover all, or a significant portion of tuition costs. In addition, cadets earn a monthly stipend of up to \$400 and up to \$510 per academic year to pay for textbooks.

Cadets are required to attend AFROTC classes, in uniform, one day per week. One summer, typically between the sophomore and junior year, cadets must attend a four-week military training session. The combination of USAF military education, training, and college-level curriculum gives cadets a broad-based knowledge of management, leadership and technical skills.

The minimum eligibility requirements are as follows: U.S. citizen, 30 years old or younger on Dec. 31 of the year you graduate (exception—prior enlisted), meet USAF weight standards, pass a physical fitness test, have a 2.5+ cumulative college GPA and pass the Air Force Officer Qualifying Test (A USAF-unique academic aptitude test).

Although the USAF will accept students from any accredited academic major, there is a critical need for engineers (all disciplines). Upon graduation, cadets will earn USAF commissions as Second Lieutenants and must serve a minimum of four years on active duty.

Elective credit toward graduation will be granted by Lipscomb University for these courses to a maximum of 20 semester hours for a complete program.

For more information, visit www.AFROTC.com or call the Det 790 Unit Admissions Officer at 615.963.5979. Also visit the Det 790 website at www.tnstate.edu/rotc.

For further information write to:

AFROTC - Air Force
Detachment 790
Tennessee State University
Nashville, TN 37209-1561
615.963.5979

Army Reserve Officer Training Corps (ROTC) Officer Education Program

The Army Reserve Officer Training Corps (ROTC) provides pre-commission training for college-educated men and women who desire to serve as commissioned officers in the active Army, Army Reserve and Army National Guard. As the Army's largest commissioning source, it fulfills a vital role in providing mature young men and women for leadership and management positions in an increasingly technological Army. Admission is open to both men and women who meet mental, moral and physical qualifications.

Training goes beyond the typical college classroom and is designed to build individual confidence and self-discipline, instill values and ethics, develop leadership skills and increase physical endurance. The course load consists of one course per semester.

Graduates are commissioned as Second Lieutenants and will enter active duty within 60 days. Educational delays may be granted for graduates who desire to pursue advanced degrees prior to entry on active duty.

All University students in the Nashville area may participate in the Army ROTC Program at Vanderbilt University. While Vanderbilt serves as the host university, students at partnership schools are not charged additional tuition to take Army ROTC. Courses are transferred back to each university and added to the students' transcripts.

Scholarship students receive full-tuition scholarships each year, an annual \$900 book allowance, all uniforms and a monthly tax-free stipend beginning at \$300 for freshmen and increasing to \$500 for seniors. Vanderbilt University also provides Vanderbilt ROTC scholarship students an additional \$3,000 tuition grant each year for room and board. Students who are not on scholarship receive the monthly stipend during their junior and senior years. All students enrolled in the Army ROTC program are provided textbooks and uniforms at no expense. Contracted non-scholarship students also receive the monthly stipend from \$300 to \$500 depending on the MS level.

Scholarships

Students can earn merit scholarships in several ways. High school seniors and graduates compete for four-year scholarships that are determined by local competition among Vanderbilt applicants. Although determined locally, the application process is centrally managed. For more information, see the website at www.armyrotc.com.

College sophomores not enrolled in military science may enter the program by attending four weeks of summer training after their sophomore year at Fort Knox, Ky. These students are then eligible to compete at the national level for two-year scholarships.

Enlisted members of the U.S. Army are eligible for Green-to-Gold scholarships that are determined by national competition or by the commanding generals of Army divisions and corps.

Enlisted members of the Army Reserve or Army National Guard or outstanding students who are interested in joining the Army Reserve or Army National Guard may be eligible for two-year scholarships. They must have successfully completed two years of college to apply.

Summer Training

The five-week leadership exercise at Fort Lewis, Wash., is a commissioning requirement. This is normally done between the junior and senior years. Travel, room and board are provided free, and cadets are paid approximately \$700. Other training opportunities exist for qualified applicants who volunteer.

Commissioning and Career Opportunities

A commission in the U.S. Army is a distinctive honor earned through hard work, demonstrated commitment and a desire to serve the nation. Post-graduate military education, usually starting within six months of graduation and commissioning and continuing through the officer's service career, begins with the basic officer leadership course followed by officer basic courses that qualify new lieutenants in their specialties. Afterwards they are usually assigned as platoon leaders, typically responsible for every aspect of training, supervising, and caring for sixteen to thirty soldiers and millions of dollars worth of equipment. Education delays are available for critical specialties requiring post-graduate civilian education such as law and medical degrees.

Service Obligations

After the freshman year, scholarship students incur a service obligation of four years active duty and four years in the Inactive Ready Reserve. There are also opportunities to serve all eight years in the Guard or Reserves.

Course Credit

During the four-year program, Army ROTC students complete eight courses of military science. Academic credit varies by school.

Tuition

Tuition is waived for any military science course that is not applied toward the degree.

Military Science Courses

During the four-year program, Army ROTC students complete eight courses of military science. Academic credit varies by school.

Freshman Year

MS 101. Leadership and Personal Development
MS 102. Introduction to Tactical Leadership

Sophomore Year

MS 201. Innovative Team Leadership
MS 202. Foundations of Tactical Leadership

Junior Year

MS 301. Adaptive Tactical Leadership *
MS 302. Leadership in Changing Environments *

Senior Year

MS 401. Developing Adaptive Leaders *
MS 402. Leadership in a Complex World*

* Prerequisite required to enroll

Military Science Department Staff

Commanding Officer: Michael J. Slocum; Military Instructors:
Johnny C. Simon, James C. Fournier, Victor M. Sanchez

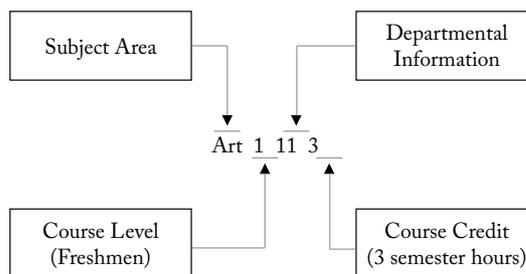
Information

Inquiries regarding enrollment in the Army ROTC program should be made to the Army ROTC Admissions Officer at 615-322-8550 or 800-288-7682 (1-800-VUROTC) or at the address below. Also see www.vanderbilt.edu/army.

Army Officer Education
Box 326, Peabody Campus
Nashville, TN 37203
615.322.8550 • 800.288.ROTC

Academic Departments and Course Descriptions

The following section includes a brief description of each of the academic departments at Lipscomb University along with descriptions of all courses offered by each department. As students choose electives from this section to complete their academic program, they should check with their advisor and possibly the academic chair involved to make sure they have the required prerequisites to enter a particular course. Courses are represented by a four-character designation. The first digit indicates the class level: 1—freshman, 2—sophomore, 3—junior, 4—senior. The two middle characters are for departmental use and usually indicate a sequence of courses or categories of courses. The last character indicates the course credit.



The semester that courses are normally offered is indicated by: F—fall, SP—spring, SU—summer and W—wintermester.

* Indicates the course is normally offered in alternate years. See academic chair for details.

Graduation

Graduation (GN)

999X Graduation Course (0)

Students must be registered for this course the semester all course work will be completed for graduation. Students are responsible for logging into Blackboard and completing the course requirements. Students must register for and complete this course in order to graduate.

Lipscomb Seminar

Lipscomb Seminar (LU)

EN0110 Developmental Seminar

The basic introduction to university-level reading, writing and critical thinking; required during the first semester at Lipscomb for first year students who score below 20 on the written portion of the ACT or below 480 on the written portion of the SAT in English. Developmental Seminar is intended to help students develop the university-level competencies in reading and writing that are prerequisite to the standard composition sequence. To that end, this course provides an intensive review of English grammar, mechanics and usage; an introduction to critical thinking; and frequent practice in written composition, including expository essays. This is a developmental, non-credit course. Students must pass this course with a grade of "C" or better before enrolling in EN 1113 or LU 1103.

LU 1103 Lipscomb Seminar (3)

The introduction to university-level reading, writing and critical thinking required during the first semester at Lipscomb for all first-year students except those who are required to take Developmental Seminar. Discussion-oriented and writing-intensive, the Lipscomb Seminar introduces students to the intellectual endeavor of liberal arts education from a Christian perspective in small group settings designed to develop mentoring relationships, to provoke important questions, to facilitate thoughtful discussion, and to promote critical examination of moral, ethical, social and spiritual issues. Students may not withdraw from this course unless they are withdrawing from the university. This course may satisfy the SALT Tier II requirement. Prerequisite: a score of 20 or better on the English portion of the ACT or a score of 480 or better on the verbal portion of the SAT. A grade of "C" or higher in LU 1103 is necessary to enroll in EN 1313. Instructors may assign a grade of "NC" (no credit) to diligent students who nevertheless fail to earn a "C." However, instructors reserve the right to assign an "F" when, in their opinion, students do not demonstrate satisfactory effort. Students who do not earn a "C" in LU 1103 must retake the course the subsequent spring semester. No AP, CLEP, or "Dual Enrollment" credit is accepted for this course.

Developmental Non-Credit Courses

While remedial or developmental courses are designed to move a student toward graduation by bringing him/her up to a level of preparedness to do college work, they do not apply toward graduation credit. Developmental courses benefit the student by being officially counted as part of the load and determining eligibility for financial aid and/or scholarships.

EN 0110 Developmental Seminar (3 non-credit hours) F, SP

Required for students who score below 20 on the written portion of the ACT or below 480 on the written portion of the SAT in English. Developmental Seminar is intended to help students develop the university-level competencies in reading and writing that are prerequisite to the standard composition sequence. To that end, this course provides an intensive review of English grammar, mechanics and usage; an introduction to critical thinking; and frequent practice in written composition, including expository essays. Students must pass this course with a grade of "C" or better before enrolling in EN 1113 or LU 1103.

LS 0020 Learning Skills and Reading Improvement (2 non-credit hours) F

Intensive practice in methods of understanding and retaining textbook material and other reading material through context clues, vocabulary growth, analysis and organization of ideas, inference and critical thinking. Students in LS0020 will also be required to participate in supplemental instruction workshops and seminars if the instructor deems it necessary to do so. These workshops will cover topics relevant to academic success, such as time management and test-taking. The skills are presented in a supportive atmosphere, and every effort is made to have the students practice the skills with their current classes.

MA 1020 Introductory Algebra (3 non-credit hours) F

A review of high school algebra that includes a review of real numbers, equations, inequalities, problem solving, graphing, polynomials, factoring and systems of equations. Students who score below 15 on the ACT or 360 on the SAT in math will be required to take this course.

MA 1030 Intermediate Algebra (3 non-credit hours) F, SP, SU

A review of high school algebra that includes factoring, inequalities and problem solving, rational expressions, functions, exponents and radicals, and quadric equations and functions. Prerequisite: At least a 15 ACT (or 360 SAT) math score or Mathematics 1020 with a grade of "C" or higher.

TP 0110 Turning Point (1 non-credit hour) F, SP

This course is designed to be offered as part of the Turning Point program. Emphasis is placed upon personal assessment, development of personal goals, accepting personal responsibility, effective self-management strategies, changing self-defeating patterns of thinking and behavior and becoming life-long learners. Self examination and reflection will be encouraged through group discussions, personal journals and essay writing. Students who are required to participate in the Turning Point program may be required to enroll in TP 0110 if it is offered.

General Education Integrated Courses (Explorations and Engagements)

The following courses refer to the Explorations and Engagements requirements for Lipscomb's general education program. Students should consult the general education section of this catalog for specific requirements that include these courses.

LUMS 2xn3 Explorations in Math/Science: (selected topic) (3) F, SP

Topics for this course partner content in mathematics, biology, chemistry, physics, astronomy, environmental science & sustainability with each other or with content in another academic area in order to explore the connections between the two areas. Content will be integrated to develop the students' skills and content knowledge in the participating academic areas as well as to provide opportunities for students to understand the relationship between the specific content and between the academic areas in general. Laboratory experiences vary depending on topic. Prerequisite: Foundations course work in math and science. (Prerequisites do not apply to LUMS 2003).

LUMS 2003 Power of Science I/Biology and Chemistry (3). Lecture 2 hours; Lab 2 hours

LUMS 2013 Power of Science II/Physics and Nutrition (3). Lecture 3 hours

LUMS 2083 Power of Science III/Physics and Meteorology (3). Lecture 3 hours

LULT 2xn3 Explorations in Literature: (selected topic) (3) F, SP
Topics for this course partner periods or genres of literature with content in another academic area in order to explore the connections between the two areas. Content will be integrated to develop the students' skills and content knowledge in the participating areas as well as to provide opportunities for students to understand the relationship between the specific content and between the academic areas in general. Prerequisites: EN 1313.

LUHI 2xn3 Explorations in History: (selected topic) (3) F, SP
Topics for this course partner periods of history with content in another academic area in order to explore the connections between the two areas. Course content will be integrated to develop the students' skills and content knowledge in the participating academic areas as well as to provide opportunities for students to understand the relationship between the specific content and between the academic areas in general.

LUSS 2xn3 Explorations in Social Science: (selected topic) (3) F, SP
Topics for this course partner content in psychology; sociology; economics; political science; law, justice & society with each other or with content in another academic area in order to explore the connections between the two areas. Course content is integrated to develop the students' skills and content knowledge in the participating academic areas as well as to provide opportunities for students to understand the relationship between the specific content and between the academic areas in general.

LUEG 3xn3 Engagements: (selected topic) (3) F, SP
A multidisciplinary course that investigates a particular era, theme or problem, using insights, methods and habits of thought from the liberal arts (math, sciences, humanities, and the fine arts), Bible and other academic disciplines. The course builds on the Foundations and Explorations course work in order to understand and evaluate diverse ways of knowing and to explore approaches to living in a diverse world with integrity and compassion. This course serves as a required Bible. Prerequisites: minimum of 60 hours earned credit.

Global Learning (GL)

GL 110V The Cross-Cultural Experience (1-3)
Its aim is to place the experience of living abroad in a meaningful context so that students are provided with a sense of the historical and contemporary culture of the city and country in which they study. This course incorporates an interdisciplinary approach to the topics of identity and culture by examining Christian theology, history, cultural studies, political science, commerce, art and music to develop a snapshot of British culture. You will derive meaningful interpretations of identity and culture while comparing these perceptions to our own preconceived understandings of American identity and culture. Based upon your perceptions and growth throughout the semester, you will also reflect upon how "life abroad" has impacted your own sense of identity.

GL 1203 City as Text (3) SU
Provides a study of a specific location or region that will vary. The course content will focus on experiential learning and investigating the city or region as a "textbook." Appropriate readings will be assigned to prepare students for a deeper understanding of the topic or topics included in the course. The basis for the course material and topics will be heavily based on the faculty member's area of expertise and the location selected.

Humanities (HU)

HU 2003 World Humanities I, II (3, 3) Offered only in semester-long Global Learning programs
HU 2013
These humanities courses use a multidisciplinary approach to understanding the human condition, exploring key periods, perspectives and issues central to the Global Learning site where they are offered. Insights from disciplines such as history, art, communications, politics and business shed light on the many factors that define a culture and on the interrelationships of these factors. The instructor will make extensive use of local culture and resources to facilitate experiential learning and the cultivation of an informed personal world view. Either course may substitute for integrated history LUHI 2xn3.

Igniting the Dream of Education and Access at Lipscomb (IDEAL)

The IDEAL program seeks to provide education and career development to students with intellectual and developmental disabilities (ID/DD) while encouraging friendships and increased independent skills that lead to a better quality of life. This is a two year program in which students will take two IDEAL courses a semester and two Lipscomb courses. These courses are for students only enrolled in the IDEAL program.

IDEA 1003 Employment Skills for IDEAL I (3) F

This course will cover key skills in the areas of transitioning to college, living a healthy lifestyle, maintaining personal hygiene and developing self-determination skills. Students will learn how to communicate with their professors and classmates and how to set goals for themselves for their college experience. They will also learn how to manage their student account and to make healthy food choices on campus.

IDEA 1013 Technology Skills for IDEAL I (3) F

This course will cover communication via technology (i.e., email, texting) and basic programs (i.e., Microsoft products, online banking). Students will learn the basics of these aspects of technology and practice using them to complete a variety of projects.

IDEA 1023 Employment Skills for IDEAL II (3) F, SP

This course will cover basic independent living skills that students need in order to be successful in college (i.e., note-taking, self-determination and interpersonal skills) as well as in their future careers (appropriate behavior toward supervisors and coworkers and work stamina). Students will acquire skills through a variety of instructional methods and will practice using them to complete a number of projects.

IDEA 1033 Technology Skills for IDEAL II (3) F, SP

This course will cover communication via technology (i.e., social media), basic programs (i.e., Microsoft products, internet usage), and career tools (i.e., resume building). Students will learn the basics of these aspects of technology and practice using them to complete a variety of projects.

Elective Internship

INTR 100V Elective Internship (1-6) F, SP, SU

The elective internship provides an opportunity for students to focus on career exploration and professional development without gaining credit in any particular department or academic discipline. Interns obtain academic credit for practical experience in the workplace while reflecting on professional development during the semester. 195 contact hours plus internship documentation are required for three hours of university credit. Attendance at a mandatory internship orientation will provide the intern with a description of all assignments and requirements for the course. Upon attendance, the intern will be provided an override that will permit registration in the course. Grades will be determined by the Lipscomb University internship coordinator based on completion of all assignments as well as evaluations from the on-site supervisor. Further details may be obtained from the career development center. Students may register for one to six hours of credit during any semester or summer term. A maximum of six hours of elective internship credit may be used toward graduation requirements.

University Orientation

UN 1101 Strategies of an Effective Learner (1) F

Strategies of an Effective Learner is designed to provide an orientation to the purposes of higher education, in general and to the institution. Specifically, it is intended to: 1) build self-esteem and confidence; 2) introduce study skills and habits necessary for being successful in a rigorous academic program; and 3) increase student awareness of academic resources and opportunities for involvement on the university campus.

UN 13nV Special Topics (1-2)

Topics will focus on issues vital to a student's academic and/or life success. Courses will be offered for 1 or 2 hours credit.

UN1201 Seminar for Adult Success (1) F, SP

Students will develop the strategies for a successful transition into college at Lipscomb. Topics include but are not limited to writing and communication skills, developing proficiency for online courses, time management, study skills, library orientation, balancing work and school and academic planning. Required for all Adult Degree Program students their first semester.



College of Arts and Sciences

Norma J. Bond Burgess, Dean
Florah Mhlanga, Associate Dean

The College of Arts and Sciences is the largest of the university's seven colleges. The college includes the academic areas that constitute the university's liberal arts core as well as several professional areas. The college provides students with the skills and critical perspectives necessary to become engaged learners that meet the challenges of a global society. Drawing upon the intellectual resources of fourteen departments, the college offers students opportunities in both traditional and innovative learning environments in fine and performing arts, languages and literature, psychology, communication, mathematics, natural sciences, history, politics and philosophy. Interdisciplinary programs are offered in sustainability, while a professional program is available in social work. Graduate programs in psychology, counseling, marriage and family therapy, film and creative media, molecular biology and sustainability are also offered in the College of Arts and Sciences. The university's highly respected and successful pre-med program is also housed in the College of Arts and Sciences.

Off-site learning experiences (i.e., clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the timeframe for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses may result in failure to complete the desired program of study.

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School of Communication and Social Sciences

Department of Communication and Journalism

Alan Griggs, Associate Professor and Academic Chair
James F. McCollum Jr., Associate Professor
Aerial Ellis, Instructor
Paul Prill, Professor
Linda P. Schacht, Associate Professor
Jim L. Thomas, Professor

Faculty and students in the Department of Communication and Journalism explore the revolution that is reshaping global communications. The department's mission is to provide students with an outstanding education as they study and practice ethical communications in a global society. The department prides itself on small classes with scholars and practitioners that enable student learning by putting theory into practice, beginning in students' first courses and continuing through their final portfolios. The department's teaching mission reflects not only time-tested journalism and communication fundamentals, but also the rapid changes in the way we exchange, process and reflect on information in today's society. The department's curriculum equips graduates to communicate ethically and effectively in all media and across all platforms. This way, students enter the journalism or communication profession as: responsive and responsible communicators, listeners and critical thinkers; leaders who use communication to affect attitudes and behavior for a better world; and responsible citizens who understand the role and use of technology as it continues to unfold in changing our world.

Students choose one of three majors: journalism and new media, leadership communication or public relations. An individual majoring in communication and journalism concentrates on both the social sciences and the humanities. At its core, the study of communication is the study of human interaction at the levels of interpersonal, small group, public, organizational and mass communication. In addition to technical skills in audio, video and online production, students enjoy opportunities to develop transferable skills in such areas as writing, public speaking, conflict and relationship management, interviewing and reporting, leadership, small-group dynamics, persuasion, decision making and problem solving, negotiation, audience analysis, message and communication campaign development and speech writing, among others.

Distinctives of the Communication and Journalism Department

Facilities

The Department of Communication and Journalism is home to an award-winning television station and radio station as recognized by the Southeast Journalism Conference and the Society of Professional Journalists. Its facilities include a fully equipped focus group room and the Mullican Studios, a 6,000-square-foot communication complex housing television and radio studios, control room, five multi-media production suites, voice-over booth and a newsroom/lab. This complex is home to Lumination Network, the student media network of Lipscomb University (www.luminationnetwork.com). Lumination provides television, radio, print and online opportunities for student journalists. Communication and journalism majors also may assist with coverage of athletic events using the ESPN3 control room in Allen Arena as well as through a videostreaming partnership between Turner Broadcasting and universities of the Atlantic Sun Conference.

Executives and Journalists in Residence

In addition to a communication and journalism faculty known for its work in conflict management, leadership, corporate and government communications, video and radio production, and journalism, several outstanding practitioners bring a depth of experience to the classroom each year. Journalists-in-residence teaching include these award-winning professionals: a newspaper columnist, editor and an environmental documentary filmmaker.

Department Speaker Series and Programs

Throughout the year, the department hosts a series of Media Master evenings with highly accomplished and respected professionals. These professionals lead important discussions of current events and trends in the industry.

Internships

Every major in the Department of Communication and Journalism is required to complete at least one internship. Lipscomb communication majors have interned at dozens of locations in the last several years, including the following: The Buntin Group, Bridgestone, CMT, Country Music Association, "Dateline: NBC," The Dave Ramsey Show, the Dell Corporation, the Disney Corporation, E! Radio, The Emmys, Firestone, Fox 17, the Golf Channel, Gospel Music Association, Governor of Tennessee, McNeely Pigott & Fox, Nashville Predators, Nashville Public Television, The Nashville Scene, Nashville Zoo, Provident Music, Seigenthaler Public Relations, Southern Hills Medical Center, Tennessee Titans, Titans Radio Network, The Tennessean, Universal Music Group, United States Senator representing Tennessee, Vanderbilt Children's Hospital, 95.5 WSM, WKRN-TV, WSMV-TV, WTVF-TV, Youth Encouragement Services and 104.5 The Zone.

Off-Campus Study

Lipscomb University offers a number of global learning opportunities valuable to communication and journalism majors, including programs in London, Vienna, Chile, China, Washington, D.C., and New York. Opportunities for off-campus study also are available through the Council for Christian Colleges and Universities, the Los Angeles Film Studies Center and the D.C.-based Summer Institute of Journalism programs. More information can be found at www.bestsemester.org

Professional Societies

Communication majors are automatically members of the department's Communication Majors and Minors Association (COMMA); they are encouraged to join the campus chapters of the Public Relations Student Society of America (PRSSA) and the Society of Professional Journalists (SPJ).

Career Opportunities

- Actor
- Advertising director
- Announcer
- Audio/video specialist
- Author
- Bank officer
- Book editor
- Broadcast
- Supervisor/technician
- Camera operator
- Campaign manager
- Children's book author
- Circulation manager
- Communications specialist
- Copy editor/writer
- Corporate communications
- Director
- Correspondent
- Critic
- Customer service
- Representative
- Darkroom technician
- Director - film, video, theatre
- Disc jockey
- Dubbing editor
- Editorial assistant
- Electronic publishing
- Specialist
- Events planner
- Feature writer
- Filmmaker/documentary
- Freelance reporter
- Fundraiser
- Government relations
- Specialist
- Grant writer
- Graphic artist
- Hospitality/hotel manager

- Human resources administrator
- Illustrator
- Indexer
- Insurance agent/broker
- Investigative reporter
- Journalist
- Lawyer
- Legal assistant
- Literary agent
- Lobbyist
- Magazine/newspaper editor
- Media relations
- Minister
- Representative
- Mediator
- Motivational speaker
- News anchor
- Photojournalist/photographer
- Press secretary
- Print production manager
- Public information officer
- Public relations specialist
- Publisher
- Real estate broker/agent
- Reporter
- Speechwriter
- Sportscaster/promoter
- Station manager
- Teacher
- Technical writer
- Wire editor

The majors in communication and journalism are flexible degrees. Many employers cite written and oral communication skills and an understanding of communication processes as the basic skills for a variety of positions.

Requirements for Majors

The Department of Communication and Journalism offers three majors: journalism and new media, leadership communication and public relations. In keeping with a convergence curriculum, five core courses are required for all majors, including a capstone class designed to produce a marketable portfolio.

Core Courses for All Majors in Communication and Journalism

Total hours required - 17

- Communication 1014 - 21st Century Media
- Communication 2144 - Multimedia Storytelling
- Communication 3013 - Cross-Cultural Communication
- Communication 3023 - Communication Law
- Communication 3433 - Media Ethics
- Communication 4813, 4823, or 4833 - Great Ideas

Requirements for Individual Majors

Journalism and New Media Major

B.A. degree program only

Total hours required - 52

Communication core -

Communication 1014, 2144, 3013, 3023, 3433

Specific courses required in addition to core -

Art 1723

Communication 2153, 2693, 3613, 3911 (taken twice), 4023, 4813

Three hours selected from:

Communication 3633, 3643, or 3663

Twelve hours selected from:

Communication 3413, 3603, 3623, 3653, 4053, 4063, 469V
English 3123

Leadership Communication Major

B.A. degree program only

Total hours required - 50

Communication core-

Communication 1014, 2144, 3013, 3023, 3433

Specific courses required in addition to core-

Communication 2133, 2703, 3033, 3053, 3083, 4003, 4033, 4063, 4823

Six hours selected from-

Communication 3073, 3603

Management 3503

Political Science 2253, 3013, 3033

Public Relations Major

B.A. degree program only

Total hours required - 49

Communication core-

Communication 1014, 2144, 3013, 3023, 3433

Specific courses required in addition to core-

Art 1723

Communication 2133, 3703, 3723, 3941 (taken twice), 4013, 4063, 4833

Marketing 3503

Six hours selected from-

Communication 2703, 3033, 3053, 3083, 3603

English 3123

Marketing 3403

Requirements for Minors

Journalism and New Media Minor

Total hours required - 18

Specific courses required-

Communication 1014, 2144, 2153, 3613, 3911

Three hours selected from:

Communication 2693, 3023, 3413, 3433, 3623

Leadership Communication Minor

Total hours required - 18

Specific courses required-

Communication 2133, 3013, 3033, 3053, 3083, 4003

Public Relations Minor

Total hours required - 18

Specific courses required:

Communication 1014, 2133, 2144, 3703, 3723, 3941

Course Descriptions

Communication (CO)

1003 Introduction to Communication (3) F, SP

A course in the fundamental principles of effective oral communication. Special attention is given to the selection and organization of materials and the presentation of speeches. Three emphases of the course are: theory, practice and constructive criticism.

1014 21st Century Media (4) F, SP

Foundation course exploring digital citizenship, media convergence and ethics. Lab required.

2133 Persuasion and Advocacy (3) F, SP

Study and application of seminal and current theories of persuasion for attitudinal and behavior change through advocacy communication.

2144 Multimedia Storytelling (4) F, SP

Focus on creative, character-driven writing to tell stories for all media, including the use of images, recorded video and sound. Students develop narratives for print, television, radio, podcasts or for the Web in multimedia form. Lab required. Prerequisite: Communication 1014 (may be taken concurrently).

2153 Broadcast and New Media (3) F

Emphasis placed on reporting, writing and producing for broadcast and new media, including fundamentals of reporting, writing and producing basic, multiple element and feature stories. Assignments will include reporting and producing for Lipscomb student media. Prerequisite: Communication 1014. This course may satisfy the SALT Tier II requirement.

2693 Television Newscast (3) F, SP

The basics of in-studio and field/live field news reporting and production for television, radio and online distribution. Students produce the weekly newscast for the Lumination Network. Prerequisite: CO 1014.

2703 Organizational Communication (3) F

A broad study of the flow of messages in organizations, including individual communication in presentations and interviewing, group problem-solving, negotiation and strategies for communication of leadership vision to achieve stakeholder buy-in. This course may satisfy the SALT Tier II requirement.

3013 Cross-Cultural Communication (3) F, SP

This course is designed to offer a theoretical basis for the concept of cross-cultural communication, followed by in-class practice, community experience and reflection.

3023 Communication Law (3) F, SP

This course is intended to introduce students primarily to American law and regulation with special attention to new and emerging media. As new communication technologies become more integrated into our media landscape, new legal and ethical issues are being debated and new law is made. Historical perspectives will be discussed, but the primary focus of the class is on the current status of communicators' legal rights and the theoretical underpinnings on which they are based in order to prepare students both as citizens and as prospective media professionals.



3033 Speechwriting and Coaching (3) SP

A class to prepare students who will write speeches for themselves and for leaders in business, government and non-profit organizations. Lecture and in-class student presentations. Coaching skills also developed. Prerequisite: Communication 1003.

3053 Leading Teams (3) SP

Students will apply theory through experiential learning as they explore their own leadership and followership dynamics in groups and teams. Examines approaches to building group and team competencies through effective communication.

3073 Public Diplomacy (3) F

The study of communication in the interaction of government with three strong and independent players—the media, NGOs and multinational corporations. Highlights the principles and practice of communication in public diplomacy and advocacy today.

3083 Negotiation (3) F

This course will develop an understanding of the principles, strategies, and tactics of effective negotiation and professional relationship management, particularly in the fields of communication and public diplomacy.

3413 Media History (3) F

Survey of the development of journalism and mass media including historiography and examinations of movements.

3433 Media Ethics (3) F, SP

An examination of ethical theories as well as standards and practices of media practitioners. Includes development of ethical decision-making skills in the media context.

3603 On-Camera Delivery (3) F

Offers students the opportunity to develop and practice verbal and nonverbal delivery on-camera and effective communication of messages through broadcast media. Covers reporting, hosting and interviewing for journalism/new media majors, interview and news conference preparation and execution for other majors. Prerequisite: Communication 1003, with a minimum grade of “C.”

3613 News Reporting (3) F

Fundamentals of reporting and writing the basic news story are emphasized. Assignments include reporting, writing and producing news for Lipscomb Lumination Network and its online, radio, print and television properties. Prerequisite: Communication 1014.

3623 Advanced Reporting (3) SP

Advanced course in reporting, writing and producing the news for print, broadcast and online media. Covers multi-media approaches including visual storytelling and reporting with photos and video. Includes editing of news stories and philosophy and practice of editing a newspaper, news program, or online news service. Prerequisite: Communication 1014, 3613.

3633 Radio Programming (3) SP

Basics of radio programming with focus on developing and producing programs for Lumination Network.

3643 Video Production (3) F

Basics of video production with a focus on television programming in studio and in the field. Students will apply pre-production, production and post-production techniques in class and individual projects. Prerequisite: Communication 1014. This course may satisfy the SALT Tier II requirement.

3653 Media and Culture (3) F

This course examines the interaction between media and culture, exploring effects, theory, current events and history.

3663 The Documentary (3) F

This production-oriented course will provide students with a thorough understanding of the medium of documentary film. Students will create (research, write, visualize, shoot and edit) short video documentary projects. Prerequisites: Communication 1014, 2144.

3703 Introduction to Public Relations (3) F

A study of the public relations field including job responsibilities, ethics, research, use of traditional and new media, and planning public relations programs. This course may satisfy the SALT Tier II requirement.

- 3723 Public Relations Writing (3) F**
Practical experience in writing across media and using new and emerging technologies to reach audiences with well-developed messages in news releases, public-service announcements, advertising copy, collateral information pieces, newsletters and house publications. Prerequisites: LU 1103, English 1313 and Communication 3703. This course may satisfy the SALT Tier II requirement.
- 3911 Practicum in Journalism and New Media (1) F, SP**
Writing/reporting or other staff duties for the Lumination Network. Minimum of four hours per week. Open to majors and non-majors. Permission from instructor required.
- 3941 Practicum in Public Relations (1) F, SP**
Participation in the campus chapter of Public Relations Student Society of America.
- 3993 Communication Travel (3)**
A study tour providing experiential analysis of communication applications in selected areas. Preparation work includes reading in the specific area. A major paper is required. Prerequisites: junior or senior standing with the minimum GPA of 3.0.
- 4003 Communication and Leadership (3) SP**
The course emphasizes the theory and practice of integrating communication and leadership skills. The course examines the following concepts: leader and follower communication styles; communication skills and the development of leadership styles; the triad of communication, power, and influence; communication and organizational leadership; communication and public leadership; communication and cross-cultural leadership; and ethics involved in communication and leadership.
- 4013 Internship in Public Relations (3) F, SP, SU**
Prerequisite: Proposals for internships must be submitted to and approved by the academic chair.
- 4023 Internship in Journalism and New Media (3) F, SP, SU**
Prerequisite: Proposals for internships must be submitted to and approved by academic chair.
- 4033 Internship in Leadership Communication (3) F, SP, SU**
Prerequisite: Proposals for internships must be submitted to and approved by academic chair.
- 4053 Media Management (3) SP**
An analysis of the different types of media programming, their audiences, and how to design and market programming to those audiences. Prerequisites: Communication 1014, 2144.
- 4063 Audience Analysis (3) F**
This course will explore research across media, from public opinion analysis to reputation management to audience ratings. Prerequisites: Communication 1014, 2144.
- 469V Special Topics (1-3)**
An in-depth study of a particular topic not normally covered or only briefly surveyed in the regular course offerings. Topics will be announced in the semester schedule and can be chosen to fill requirements in department concentrations.
- 4813 Great Ideas: Journalism and New Media (3) SP**
Portfolio-based final course with final project focused on both the student's major and/or concentration issues and trends. Prerequisites: Senior standing. This course may satisfy the SALT Tier II requirement.
- 4823 Great Ideas: Leadership Communication (3) SP**
Portfolio-based final course with final project focused on both the student's major and/or concentration issues and trends. Prerequisites: Senior standing. This course may satisfy the SALT Tier II requirement.
- 4833 Great Ideas: Public Relations (3) SP**
Portfolio-based final course with final project focused on both the student's major and/or concentration issues and trends. Prerequisites: Senior standing. This course may satisfy the SALT Tier II requirement.
- 498V Independent Study in Communication and Journalism (1, 2, 3) F, SP, SU**
A course designed to provide the student with a major or minor from the department the opportunity to pursue independent study or research. Proposals for independent studies must be developed with a faculty member and approved by the department chair.

Department of Family and Consumer Sciences

John D. Conger, Professor and Academic Chair

Holly Allen, Professor

Kathy A. Bates, Assistant Professor

Norma J. Bond Burgess, Professor

The mission of the Department of Family and Consumer Sciences is to equip students with the knowledge and skills needed by graduates for participation in careers which serve individuals, families and consumers in a variety of settings. The primary purpose of the department is to offer a strong, general bachelor's degree in family and consumer sciences, with the opportunity to emphasize one of four areas of specialization. This is done in the context of a private, Christian, liberal arts education.

The overall focus of the department is to train individuals who can then assist others in enhancing the lives of the individuals and families they serve. The knowledge base of this discipline includes concepts from the study of human development and social interaction, resource development and management, apparel and textiles, and shelter and design of the near environment. The integrating focus of the profession is the enhancement of the relationships of people to their near social, economic and physical environments.

Distinctives of the Family and Consumer Sciences Department

Child and Family Studies

The curriculum in child and family studies follows the guidelines set forth by the National Council in Family Relations Certified Family Life Education program. It follows a life-span approach, with courses that include information from pre-natal development to later life and aging. However, the content is always taught from a family systems perspective, applying the information learned in specific courses to the larger family unit as well as families in society. Students then use this education to seek careers serving families in a variety of areas, from child development settings to families with aged members. Many graduates go on to pursue graduate training in some specific area, or seek careers in agencies, churches and other settings that serve families. Lipscomb is fortunate to be in a community with numerous opportunities for internships and further study outside the classroom. In addition, many of the courses have a service component that further enhances and reinforces information gleaned from formal study. Students are also encouraged to participate in professional organizations that offer opportunities for networking and leadership development.

Seniors choosing this concentration coordinate and present the annual Lipscomb Conference on Family Wellness, which brings national scholars, writers, practitioners and programs to campus for public audiences.

Fashion Merchandising/ Textiles and Apparel

The fashion merchandising concentration at Lipscomb is an interdisciplinary program including family and consumer sciences and business. Students receive training in all areas of the apparel industry, including selection, design, construction, history, current trends, manufacturing and retail merchandising. The textiles and apparel concentration

places an emphasis on textiles and their uses in apparel and the home. Students study construction, textile chemistry, pattern design and fundamentals of fashion for today's consumers. One of the popular aspects of these programs is the New York Study Tour. Students visit design houses, market shows, retailers, museums and the Fashion Institute of Technology as part of this course. This popular travel course provides an excellent opportunity for students to see the fashion industry at work, as well as to network with designers and manufacturers for potential internships.

Students are also able to connect with local fashion professionals and have the opportunity to study leaders in the fashion industry. Many opportunities exist within the local community for internships, employment and connections with local leaders in the fields of fashion design and retailing.

The Halston Collection, donated to Lipscomb, includes historic designer garments from the legendary House of Halston, as well as patterns, notes, scrapbooks and videos of iconic designers.

The Caroline J. Cross Chair

The Caroline J. Cross chair of the Department of Family and Consumer Sciences was established in 1997 to provide enrichment opportunities to students in this field. It provides financial resources to support and attract noted and distinguished lecturers, scholars and special programs to the Lipscomb campus.

Career Opportunities

Students who choose a major in family and consumer sciences at Lipscomb may select an area of concentration in which they are particularly interested. There are numerous career opportunities in this field.

Career Opportunities in the Apparel Industry

- Apparel manufacturers
- Buyers
- Consultants
- Coordinators
- Designers
- Retail owners and managers
- Visual merchandisers
- Stylists

Career Opportunities in Child and Family Studies

- Child life specialists
- Early childhood and child development
- Youth and adolescent development
- Family service agencies
- Advocacy and political action
- Family life education
- Religious settings
- Government and international services to families
- Agencies offering services to the aging

With graduate work, career opportunities include: careers in marriage and family therapy, law, agency leadership, higher education and business.

Requirements for Majors

The Department of Family and Consumer Sciences offers one major with four areas of concentration. Each student must take a core set of courses and select an area of concentration.

Family and Consumer Sciences Major — Consumer Sciences Concentration

B.S. degree program only

Core requirements for all concentrations:

Total core hours required— 4-6

Family and Consumer Sciences 1011, 404V, 4092

Total concentration hours required— 49

Specific courses required—

Biology 1003, 2213, 2424

Chemistry 1013, 1023

Family and Consumer Sciences 1113, 1323, 2113, 2413

Nutrition 1213, 2613, 3213

Physics 1013 or Mathematics 1113 or

Mathematics 1043

One elective selected from Family and Consumer Sciences 1113 (Repeated for credit), 3133

One elective selected from Nutrition 4213, 4223

One elective selected from Family and Consumer Sciences 3433, 3503, 4423

Note: A minor in distributive science is satisfied with this program.

Family and Consumer Sciences Major — Family Relations Concentration

B.A. or B.S. degree program

Core requirements for all concentrations:

Total core hours required— 4-6

Family and Consumer Sciences 1011, 404V, 4092

Total concentration hours required— 36

Specific courses required—

Integrated Studies 4103

Family and Consumer Sciences 2413, 3433, 3503, 3513, 3523, 4403, 4423

Psychology 3483

Sociology 2103

Six hours selected from:

Bible 3273, 3523, 3533, 3543

Family and Consumer Sciences 3413, 3423, 3451, 37nV, 400V, 401V

Finance 2213

Management 3503

Mathematics 2183

Nutrition 2613

Psychology 2423, 3323, 3413, 3453, 3513

Social Work 3113, 3223, 3313, 3333

Sociology 1123

Note: This major, with appropriate electives, is designed according to the Family Life Education College and University Curriculum guidelines, established by the Certification Committee for Family Life Educators, National Council on Family Relations. Students wishing to seek certification must apply with the Certification Committee, NCFR.

Note: Areas of emphasis may be specified on approval by academic chair. All courses required for this major must be completed with a grade of "C" or higher or be repeated.

Family and Consumer Sciences Major — Fashion Merchandising Concentration

B.A. or B.S. degree program

Track I (for students interested in the corporate retail environment)

Core requirements for all concentrations:

Total core hours required— 6

Family and Consumer Sciences 1011, 404V
(3 hours), 4092

Total concentration hours required— 50-54

Specific courses required—

Accounting 2503

Business Administration 3703

Economics 2503

Family and Consumer Sciences 1113, 1323, 2113, 3103, 3113, 3123, 3143, 4113

Management 3503

Marketing 3503, 3573

Four courses selected from:

Family and Consumer Sciences 1113 (Repeated for credit), 3133, 315V, 400V

Information Technology 2043, 2223

Marketing 3533, 3543, 3553, 3753

Note: A minor in distributive business is satisfied with this program.

Track II (for students seeking opportunities in the small business environment)

Total core hours required— 6

Family and Consumer Sciences 1011, 404V (3 hours with an entrepreneurial element), 4092

Total concentration hours required— 50-54

Specific courses required—

Business Administration 3703

Family and Consumer Sciences 1113, 1323, 2113, 3103, 3113, 3123, 3143, 4113

Entrepreneurship 2503, 3543, 4403, 4453, 4543

Four courses selected from:

Family and Consumer Sciences 1113 (Repeated for credit), 3133, 315V, 400V

Information Technology 2043, 2223

Marketing 3533, 3543, 3553, 3753

Note: A minor in entrepreneurship is satisfied with this program.

Family and Consumer Sciences Major — Textiles and Apparel Concentration

B.A. or B.S. degree program

Core requirements for all concentrations:

Total core hours required— 6

Family and Consumer Sciences 1011, 404V (3 hours), 4092

Total concentration hours required — 31-33

Specific courses required—

Art 1213

Family and Consumer Sciences 1113, 1113

(Repeated for credit), 1323, 2113, 3103, 3133, 3143, 315V, 4113

One course selected from:

Art 1013

Business Administration 3703

Family and Consumer Sciences 400V

Information Technology 2043, 2223

Requirements for Minors

Family and Consumer Sciences Minor

Total hours required— 18

Specific course required—

Family and Consumer Sciences 1011

Seventeen hours of family and consumer sciences courses with approval of the academic chair. Nine

hours are to be taken in upper-division courses with three areas represented. These areas include:

food and nutrition, child development and family relations, textiles and clothing, related art and

home furnishings, and family resource management.

Family Studies Minor

Total hours Required— 19-21

Specific courses required—

Bible 2223

Family and Consumer Sciences 2413, 3433, 3503, 4403

Sociology 2103

Three hours selected from:

Psychology 3453, Social Work 3223

For parent/child emphasis the following courses should be taken instead of those listed above:

Bible 2223

Family and Consumer Sciences 2413, 3433, 3451, 3503, 4423

Sociology 2103

Fashion Merchandising Minor

Total hours required— 18

Specific courses required—

Family and Consumer Sciences 2113, 3113, 3123, 4113

Management 3503

Marketing 3503

Interior Design Minor

Total hours required— 18

Specific courses required—

Family and Consumer Sciences 1323, 2113, 2133, 2143, 3323

One course selected from

Family and Consumer Sciences 315V, 400V

Management 3503

In addition to these courses, Art 1013 is strongly recommended.

Course Descriptions

Family and Consumer Sciences (FS)

1011 Professional Orientation (1) F

A study of the discipline as well as career opportunities within the related areas of specialization. Required of all majors; to be completed prior to declaration of major in the department.

1113 Clothing Construction (3) F, SP

Student acquires skills in garment construction, fitting techniques and use of construction equipment. Repeatable for up to six hours with permission of instructor. When repeated for credit, more advanced techniques and specialty fabrics are used. Lecture/lab class.

1323 Art Applied to Everyday Life (3) F, SP

Fundamental principles of design and color as they relate to interior design and fashion.

2113 Textiles (3) SP

Natural and man-made fibers and their development into yarns and finished fabrics. Physical properties, uses and care of fabrics.

2133 Interior Design I (3) F

A study of space requirements, using the systems approach, with attention given to architectural styles, construction, and the reading, judging and drawing of house plans. Prerequisite: Family and Consumer Sciences 1323.

2143 Interior Design II (3) SP

Study of the basic components of an interior including wall, floor, window treatment, lighting, furniture arranging, accessories, fabric selection and planning and designing limited and complex living spaces. Prerequisite: Family and Consumer Sciences 2133.



2413 Early Childhood Development (3) F

A basic study of the development from the prenatal period through the first seven years as well as the environment that facilitates a child's physical, social and emotional maturity during this period. Scheduled observations of young children are required.

3103 History of Costume (3) F

Survey of the development of clothing from ancient civilization through the 19th century. Specific styles, as well as social, psychological and economic aspects of clothing are covered.

3113 Fashion Buying and Merchandising (3) SP

Fundamental study of the fiscal management and profitability of the contemporary retail environment. Considerable study will be dedicated to the structure of the retail industry, quantitative procedures for planning and analyzing sales, inventories and profits. Emphasis is placed on pricing and purchasing retail inventories.

3123 Display and Promotion (3) F

A study to facilitate an understanding of the essentials of visual merchandising and its relationship to the buying, selling and marketing of retail merchandise. An understanding of design, lighting and materials is developed. Students will gain hands-on experience in visual display and fashion show production.

3133 Flat Pattern Design (3) SP

Offered odd-numbered years

The flat pattern method of making patterns. Half-scale patterns are used for learning purposes. A full-scale sloper is made for the individual and a garment is designed. Prerequisite: Family and Consumer Sciences 1113.

3143 20th Century Fashion (3) SP

This course will examine the history of fashion from the U.S., Europe, Asia and other influential countries from 1898 to the present. A comprehensive study will be explored for the social, economic and technological themes that helped shape each era.

315V Interior Fabrications (1,2,3) SP

Offered even-numbered years

Student acquires skills in construction of pillows, window treatments, and bed and bath items. Student completes samples as well as finished products. Prerequisite: Family and Consumer Sciences 1113 or permission of instructor. Lecture/lab class.

3323 Materials and Resources for Interior Design (3) SP

Study of current products and resources available to interior designers. Includes a supervised sponsored trip to a major market. Trip expenses are not included in tuition.

- 3413 Children in Health Care (3) F**
Instruction on techniques used to help minimize the potential negative impact of the health care environment on children's development. Includes the establishment of supportive relationships with families, assessment skills for child life specialists, psychological preparation, medical play, planning, and adaptation of therapeutic and diversionary activities, coping techniques and the use of language in communicating effectively with children and practicing family-centered care within a team of professionals. Prerequisite: FS 2413.
- 3423 Foundation and Theory of Child Life Practice (3) SP**
Basic introduction to the theory, history and scope of child life practice, including the development of the profession and the current role as a member of the multidisciplinary health care team.
- 3433 Family Interaction (3) SP**
Offered even-numbered years
A review of trends and research in family relationships as well as related models and programs.
- 3451 Nursery School Practicum (1)**
Offered on demand
Observation and participation in the guidance of children in the nursery school. Prerequisites: Family and Consumer Science 2413.
- 3503 Family Problems (3) SP**
A study of family difficulties and development with emphasis placed on the understanding of family dysfunction through the application of systems theory.
- 3513 Family Resource Management (3) SP**
Management of family resources as they relate to satisfying family and life needs.
- 3523 Family Life Education (3) F**
The general philosophy and broad principles of family life education in conjunction with the ability to plan, implement, and evaluate such educational programs. This class content is designed to meet competencies of the National Council on Family Relations Certified Family Life Education program.
- 37nV Special Topics (1, 2, 3)**
Topics of special interest to students and faculty which do not fit one of the current classifications. Students may repeat this course when course numbers are different. These courses are advanced and are intended for students genuinely interested in their content. Permission of the professor may be required. Specific titles will be announced in the course schedule.
- 400V Travel (1, 2, 3) SP**
Offers opportunity to gain experiential knowledge about specific areas of specialization within family and consumer sciences. Repeatable up to six hours with chair approval.
- 401V Independent Study and Research (1, 2, 3)**
Offered on demand
Advanced study or research in a specific area of family and consumer sciences. Prerequisites: Courses in the area in which independent study is to be done and with the approval of the academic chair. Open to juniors and seniors only. This course may satisfy the SALT Tier II requirement.
- 404V Internship in Family and Consumer Science (1, 2, 3)**
Offered on Demand
Supervised field work in an institution or agency that has an established program or purpose to provide services to individuals or families in an area related to the student's chosen area of concentration. The student observes, works and contributes to the typical operation of the particular setting. Prearranged and supervised experience must be completed during one term, with regularly scheduled meetings with the instructor and/or supervisor. To be taken in the junior or senior year, after completing a minimum of nine upper-division hours in the concentration. May be repeated for up to 6 hours credit. This course may satisfy the SALT Tier II requirement.
- 4092 Senior Seminar (2) SP**
Comprehensive survey, current trends and projects in the various areas of family and consumer sciences. Prerequisites: Declared major in Family & Consumer Sciences, completion of professional orientation and senior standing.
- 4113 Fashion Industry (3) F**
A study of contemporary design, designers and trends in the fashion industry. This course gives a comprehensive overview of all aspects of the fashion industry including women's, men's, accessories and home. Emphasis is placed on product development and the role of technology and globalization. Suitable for non-majors.
- 4403 Families in Later Adulthood (3) F**
A study of aging within the context of a family system. Addresses demographic trends; influences on families; role changes of family members; intergenerational relationships; economic, political and social policy affecting family life; and cultural variations and supportive resources for older persons and their families. Also explores career options in working with families and aging individuals.
- 4423 Development in Middle Childhood and Adolescence (3) SP**
Offered odd-numbered years
A study of the psychomotor, socio-emotional and cognitive-language development of children from eight to twelve years in the context of their interaction with peers, adults and the culture.

Department of Psychology and Counseling

Daniel P. Morris, Professor and Academic Chair

Dale Alden, Assistant Professor

Christopher J. Gonzalez, Assistant Professor

Roy W. Hamley, Professor

Shanna D. Ray, Professor

Douglas C. A. Riberio, Assistant Professor

Denis' A. Thomas, Assistant Professor

Paul E. Turner, Professor

The mission of the Department of Psychology and Counseling is to aid the student in understanding self and others better in an appreciation of the origin, nature, and process of individual differences from the psychological viewpoint; in preparing for first-level entry to the job market as a university graduate; in preparing for graduate work in the discipline; and in preparing for greater service in the home, congregation, community, nation and world. This faculty believes that psychology has practical application in all areas and activities of life.

Distinctives of the Psychology and Counseling Department

The undergraduate program in psychology strives to be a student-focused environment with faculty who are known for excellence in teaching and advising. We provide our students with a variety of opportunities to excel not only inside but also outside the classroom. For example, students are regularly engaged in internship experiences, work alongside faculty members to conduct psychological research, attend and present research at local conferences, and participate in the activities of the Psi Chi National Honor Society in Psychology. Our department also offers a graduate program, providing a setting for students to pursue professional training as a counselor after the completion of their bachelor's degrees.

Career Opportunities

Work in:

- Human service agencies
- Teaching
- Management and business
- Human resources

Pursuing graduate training for careers in:

- Individual and family counseling
- School counseling
- Clinical psychology
- Psychological research
- Speech-language pathology
- Education
- Social work
- Health care
- Law

Requirements for Major

Psychology Major

B.A. or B.S. degree program

Total hours required—45

Specific courses required (36 hours)—

Psychology 1113, 2313, 2423, 2503, 2603, 3413, 3463, 3543, 4423, 4523, 4543 and 4613

Available electives (9 hours)—

Psychology 3141, 3243, 3323, 3453, 3483, 3513, 412V, 460V, 4913

Requirements for Minor

Psychology Minor

Total hours required—18

Specific courses required (12 hours)—

Psychology 1113, 2423, 3413 and 3463

Available electives (6 hours)—

Psychology 2313, 2503, 2603, 3141, 3243, 3323, 3453, 3483, 3513, 3543, 412V, 4423, 4523, 4543, 460V, 4613, 4913

Course Descriptions

Psychology (PS)

1113 Introduction to Psychology (3) F, SP, SU

An introductory course covering a variety of topics within the field of psychology such as sensation-perception, consciousness, learning and memory, motivation, emotion, development, attitudes and others.

2313 Behavior Modification (3) F, SP

A study of the application of behavioral principles (classical and operant conditioning) to applied settings. Prerequisite: Psychology 1113.

2423 Life Span Development (3) F, SP, SU

A course designed for psychology and social work majors, though open to all students, as a practical survey of human development from conception through death and dying. Prerequisite: Psychology 1113.

- 2503 Behavioral Statistics (3) F, SP, SU**
The course provides an introduction to descriptive and inferential statistics with applications for the social and behavioral sciences. Special emphasis placed on applying statistical tests to a variety of experimental and quasi-experimental designs. SPSS software skills will also be introduced for data entry, data display and statistical analysis. Not open to mathematics majors without approval from the mathematics department. Non-majors need approval by instructor. Prerequisite: Mathematics 1113 (or 23 ACT or 505 SAT score).
- 2603 Introduction to Psychological Research (3) F, SP**
An overview of research methods in psychology with a special emphasis on library research. A research paper consistent with the format specified in the Publication Manual of the American Psychological Association is required. Prerequisite: Psychology 1113.
- 3141 Independent Research (1) Offered on demand**
An individual study course in which the psychology major or minor is to conduct library or empirical research under the direction of a faculty member. Course can be re-taken for a total of 3 hours credit.
- 3243 Human Development and Learning (3) F, SP**
A study which applies psychological theories to the classroom setting with regard to: 1) physical, social, emotional and mental development processes of the child from the prenatal state through the adolescent years and 2) learning theories, individual differences, motivation, cognitive styles, and measurement and evaluation associated with the teaching-learning process. Required observation and assessment experiences are included. Open only to students seeking certification in the teaching profession. Prerequisite: Psychology 1113.
- 3323 Business and Industrial Psychology (3) F**
An introductory study of behavior in organizations, including group behavior, individual adjustments and special groups in organizations. Emphasis is placed upon techniques for motivating and supervising others and upon personnel selection and training in industry. Various aspects of work and career design are considered. Prerequisite: Psychology 1113.
- 3413 Social Psychology (3) F, SP**
A study of interpersonal human relationships with attention to person perception, attribution, nonverbal communication, altruism, affiliation, attraction, conformity, aggression and attitude formation and change.
- 3453 Death and Dying (3) F, SP, SU**
A study of the psychological aspects of the grief process in facing death and of bereavement in the loss of loved ones by death. Emphasis is upon developing personal, interpersonal and religious resources to assist in facing one's own death and for helping others who experience such loss. Prerequisite: Psychology 1113.
- 3463 Personality Theories (3) F, SP, SU**
A survey of the significant theories of personality development with an emphasis on both historical and current personality theories and models. Prerequisite: Psychology 1113.
- 3483 Human Sexuality (3) F, SP**
A survey of the complex social, physical, psychological and spiritual aspects of human sexuality. Emphasis will be on a responsible view of sexuality as part of life adjustment.
- 3513 Drugs and Behavior (3) F, SU**
A study of the nature and effects of drugs which are involved in substance abuse and those which are used in the treatment of specific emotional and psychological disturbances and illnesses. Prerequisite: Psychology 1113.
- 3543 Psychological Measurement (3) F**
An introduction to the theory and techniques of psychological measurement, including the various tests of human abilities, attitudes and personality characteristics, along with discussion of various intelligence testing techniques. Gives the student the conceptual framework for more advanced study. Prerequisite: Psychology 2503.
- 412V Psychological Topics (1-3)**
A course to be offered occasionally upon a given topic in psychology, such as "hypnotism," which does not merit a standard regular status but which may enrich the student's studies overall. Prerequisite: Psychology 1113.
- 4423 Abnormal Psychology (3) F, SP, SU**
A survey study of the definitions, history, causes, and developmental and treatment processes of abnormal (maladaptive) patterns of human behavior. Prerequisite: Psychology 1113.
- 4433 Introduction to Clinical Psychology (3) Offered on demand**
An overview of the practice of clinical psychology with emphasis on interviewing, assessment and evaluation, use of psychological tests and an introduction to techniques of psychotherapy and various treatment strategies used in a variety of clinical settings. Ethical and legal issues will be considered. Prerequisite: Psychology 1113.
- 4523 Cognitive Psychology (3) SP**
A course which focuses on the major theories related to learning with special attention to the study of memory and information processing. Prerequisite: Psychology 1113.
- 4543 Biological Psychology (3) F, SU**
A course which surveys the biological basis of behavior. The course surveys neuroanatomy, functioning of the nervous system, endocrine hormones and other biological and chemical influences upon behavior. Prerequisite: Psychology 1113.
- 460V Internship in Psychology (1-3) Offered on demand**
A course designed to provide the psychology major with internship experience in agencies suited to the student's career goals. This course is only open to psychology majors unless specifically exempted by the academic chair. The student must arrange for the internship in the semester preceding the one in which the course is actually to be taken. Prerequisite: Psychology 1113.
- 4613 History and Systems of Psychology (3) F, SP**
A study of the development of psychological thought from philosophical beginnings with emphasis upon leading theorists and their concepts from 1879 to the present. This is the capstone senior seminar course for psychology majors. Prerequisite: senior standing.
- 4913 Research Practicum (3) Offered on demand**
Psychology research projects to be generated by the instructor with the goal of presentation at psychology meetings and/or publication. Strongly recommended for students interested in psychology doctoral programs. Prerequisite: Psychology 1113.

Department of Social Work and Sociology

Hazel F. Arthur, *Professor and Chair*

Amy Crossland, *Assistant Professor*

Cayce Watson, *Assistant Professor and Practicum Coordinator*

“From life’s beginning to its end, from the first cry to the last smile, social workers touch the world...and Christian social workers touch the world for God.”

The mission of the social work program is to prepare students to touch the world for God as competent, compassionate generalist social workers who exhibit Christ-likeness through interpersonal sensitivity, sacrificial service, academic excellence, professional passion and personal integrity.

The Department of Social Work and Sociology offers a major in social work, a minor in social welfare and a minor in sociology.

Social Work

Lipscomb’s social work program is accredited by the Council on Social Work Education. This is the only national accrediting body for social work. Because of this accreditation, students are eligible to apply for Advanced Standing Master of Science in Social Work programs.

Lipscomb students earn the Bachelor of Social Work degree, rather than the Bachelor of Science or Bachelor of Arts degree. Thus, social work students take the required math, science, and humanities required for general education. They do not need additional hours of math or science required for the B. S. or language required for the B. A. degree. Lipscomb social work students do not need additional hours of math or science beyond the general education requirements for the B.S. or music, art or philosophy for the B.A. degree. Lipscomb social work graduates’ credentials are evident on their degrees, making applying and interviewing for employment a simpler process.

Lipscomb students earn over 500 hours of supervised practice experience during their time in the program. This is earned in service learning experiences in Introduction to Social Work and Social Work with the Aging, as well as in two field placements as seniors. The social work program has relationships with numerous agencies in the Nashville and surrounding area. Recent Lipscomb social work students have been placed in schools, hospitals, counseling agencies, foster care and adoption agencies, long-term care or nursing facilities, crisis pregnancy services, teen shelters, juvenile court, domestic violence shelters and others.

Lipscomb social work faculty and students have participated in mission efforts across the state, across the country and in countries around the world. In recent years, social work students have participated in or led international mission trips

to Guatemala, Africa, Australia and Honduras. In addition to teaching about Christ, students on these trips have served children in orphanages, elderly people, poor families and people in need of medical care.

Lipscomb social work faculty and students have used their research skills to improve services on the campus, in Nashville, and across the country. Recently Lipscomb social work senior students have supported Youth Encouragement Services and Choral Arts Link Inc., and Rejoice Ministries through multiple research efforts.

The social work program is housed in Lipscomb’s Ezell Center. Students benefit from classrooms equipped with state-of-the-art technology, including an Interviewing and Recording Skills Lab with stationary recording equipment and two-way mirror for observation.

According to the Substance Abuse Mental Health Services Administration, social workers are the nation’s largest group of mental health providers. Federal law and the National Institute of Health consider social work as one of five core mental health professions. Over 40 percent of all disaster mental health volunteers trained by the Red Cross are social workers.

Sociology

Sociology courses are available primarily in support of general education requirements, as well as nursing, social work, and education majors. These courses are designed to acquaint students with the nature of human relations and society, as well as provide them an understanding of society’s essential structures and processes.

Career Opportunities

Social work graduates provide case management, counseling and support services to individuals, families, groups and communities through employment in:

- Child and family service agencies
- Nursing homes
- Senior citizen centers
- Hospitals
- Day care
- Children's homes
- Foster care
- Adoptions
- Residential treatment
- Home health care
- Administrative and sales work
- Personnel work with public and private organizations
- Agencies providing child and adult protective services
- Pursuit of advanced degrees in the medical, legal and business fields

Requirements for Major

Social Work Major

B.S.W. degree program

Total hours required— 65

Specific courses required—

Biology 2213

Psychology 1113, 3513

Social Work 1103, 2313, 2333, 3113, 3223, 3313, 3533, 3543, 3613, 3623, 3632, 4513, 4523, 4903, 491B

Sociology 1123

Note: A distributive social science minor requirement, built into the major, is met with required courses in biology, psychology and sociology.

Under the supervision of the social work faculty, social work practicums 3632 and 491B are completed in an approved social work agency during the senior year. Application for admission to Social Work 3632 and 491B must be made at the beginning of the semester preceding placement. (The social work program does not grant academic credit, course waivers or field practicum credit for life experience or previous work experience, per CSWE curriculum policy requirements.)

Note: Social work majors earn the Bachelor of Social Work (B.S.W.) degree, rather than the Bachelor of Science (B.S.) or Bachelor of Arts (B.A.) degrees. This means that social work students do not need the extra math or science hours required for the B.S. degree or the foreign language hours required for the B.A. degree.

Note: For social work majors, a letter grade of "C" or higher in each social work course is required to proceed to subsequent course work. For other academic requirements, consult the Social Work Student Handbook which may be obtained from the Department of Social Work and Sociology.

Requirements for Minors

Social Welfare Minor (*non-social work majors only*)

Total hours required— 18

Specific courses required—

Social Work 1103, 2353, 3113, 3223, 3313

Three hours selected from Social Work 2313, 3333, 401V, 3nnV

Sociology Minor (*non-social work majors only*)

Total hours required— 18

Specific courses required—

Sociology 1123, 2103; Social Work 3113

Three additional courses in Sociology and/or

Social Work 2353, 3313, 3223, 3333

Admission to the Social Work Program

In accordance with CSWE accreditation standards, the social work program has a formal admission process, which typically occurs in the student's junior year, after the completion of Social Work 1103, 2313 and 3533. Admission must be obtained prior to a student's entry into Social Work 3623 and Social Work 3632, which are taken in the fall of the senior year. Applications for admission to the social work program are available from the social work program director. A completed admission packet includes an application; a brief autobiography utilizing the outline contained in the application; references from three non-social work faculty, staff or administrators; and the summary results of the Myers-Briggs and Taylor-Johnson Inventories taken in the University Counseling Center (and provided without cost to the student).

Prerequisites: Social Work course descriptions listed on the following pages include required prerequisites. Because of course sequencing, students are advised to complete Social Work 1103, Introduction to Social Work, prior to the fall of their junior year. Failure to do so may delay a student's graduation. Since most Lipscomb students have several elective hours, students interested in the helping professions (psychology, family studies, education, counseling, nursing, family ministry, etc.) should consider enrolling in the Social Work 1103 course as an elective during their freshman or sophomore year. Doing so would prevent a graduation delay in the event the student later wished to change majors and earn the B.S.W. degree.



Course Descriptions

Social Work (SW)

1103 Introduction to Social Work (3) F, SP

Provides the student with an overview of the social work profession with an emphasis on professional values, ethics and the diverse population groups served. It is designed to give the student a beginning knowledge of generalist practice and explore career opportunities in various fields of social work. Includes a 15-hour required service learning experience. This course may satisfy the SALT Tier II requirement.

2313 Social Welfare Policy and Services (3) F

Focuses on an understanding of the development of social welfare institutions and services, historically and currently. Explores the relationship between economics and politics to social policy and how each influences the structure of the social welfare delivery system. Must be at sophomore level or above. Prerequisite: Social Work 1103.

2333 Interviewing and Recording Skills (3) SP

This course examines the knowledge and values required for generalist social work practice while specifically focusing on the skills necessary for effective micro-level intervention. The student will be introduced to interpersonal skills, techniques of the assessment and interviewing process and beginning recording skills. Includes lab outside of class time. Prerequisite: Social Work 1103.

2353 Effects of Disability (3) SP

This course is designed to introduce the student to disability issues. Current legislation, resources and intervention strategies will be included in this study. Use of guest speakers and/or field trips will enhance the student's understanding and awareness of people who are disabled.

3nnV Special Topics Course (1, 2, 3)

This course provides an opportunity for the examination of special issues or participation in unique experiences beyond basic social work curriculum. Examples may include issues that are particularly timely and relevant to social work practice as a result of social, political or economic factors present at a given time. Course may include community service or service learning component.

3113 Race and Ethnic Groups (3) F, SP

A study of the issues and challenges arising from local, national and international racial and ethnic group relations, with special emphasis on diversity and the dynamics of discrimination within the U.S. culture.

3223 Social Work with Aging (3) F

An ecological, systems perspective is utilized to understand the physical, spiritual, social and psychological aspects of aging in diverse populations. The implications of aging for the family unit, as well as the political, legal and economic systems are explored. Emphasis is placed upon ethical practice, as students prepare to provide direct services to aging individuals and their families, to recognize service needs and gaps, and to become advocates for improvements in policy and services. When offered for SALT Tier II credit, the course includes a 15-hour required service learning experience.

3313 Child Welfare (3) F

A study of the child welfare system and how services are provided to children and their families. Emphasis is placed on home-based services, child abuse and neglect, foster care, residential care, adoption and services to maternity clients.

3333 Juvenile Justice (3) F

This course is designed to provide the student with an understanding of the development of the juvenile justice system, its structure, current issues and problems and the role of social work within this system.

3533 Human Behavior and the Social Environment I (3) F
This course focuses on the diversity of individuals, examining the biological, social-structural, psychological and cultural sources of human behavior. Systems theory and an ecological perspective are utilized in understanding the development of individuals and families throughout the life cycle. A planned change model approach provides the framework for addressing individual and family issues within the context of the environment in which they exist. Prerequisites: Social Work 1103, Sociology 1123, Psychology 1113.

3543 Human Behavior and the Social Environment II (3) SP
This course continues to develop the framework presented in Social Work 3533, examining the definition and development of families, groups, organizations and communities. Traditional and alternative perspectives are examined in defining and understanding the development and behavior of each of these groups. Utilizing systems theory and an ecological perspective as a framework for planned change, the course will focus on understanding for the purpose of intervening with and on behalf of diverse families, groups, organizations and communities. Prerequisites: Social Work 3113, 3533. Prerequisite or corequisite: Biology 2213.

3613 Social Work Practice I (3) SP
This course is designed to assist the student in a critical study of generalist social work practice. Such a practice is characterized by a working knowledge of generalist methods of planned change to be used in direct services to individuals, families, groups, organizations and communities. This course focuses on micro and mezzo practice and places special emphasis on broad-based knowledge and skill for intervention with families and groups. This is the second semester of work of the social work practice sequence. Prerequisites: Social Work 1103, 2313, 2333, 3533. Open to social work majors only.

3623 Social Work Practice II (3) F
A continuation of Social Work 3613 this course focuses on the philosophy, knowledge base and methods of social work intervention, with emphasis placed on organization and community change. Utilizing experiences from Social Work 3632, the student participates in self-evaluation, as well as agency analysis and evaluation. Strategies for identifying needed changes and maximizing available resources are examined. Prerequisite: Social Work 3543, 3613 and Psychology 3513. Must be taken concurrently with Social Work 3632. Open to social work majors only.

3632 Social Work Practicum I (2) F
Practice in a social work field is an important part of social work education. This course provides an opportunity for an initial planned experience in a social work agency. Requires a minimum of 4 hours per week in the agency and one hour per week in class. The student must make application for placement and be accepted by social work faculty. Prerequisite: Social Work 4513. Must be taken concurrently with Social Work 3623. Open to social work majors only.

**401V Independent Readings and Research (1, 2, 3)
Offered on demand**
Directed individual reading and study in one or more specialized areas of social work, designed to strengthen and enhance the student's knowledge.

4513 Research Methods (3) SP
The research methods course is designed to acquaint the student with a practical understanding of science and its relationship to social work practice, through a review of research methods and strategies, program evaluation, scientific terminology and relevant ethical issues necessary for becoming an effective generalist social worker. Prerequisite: Mathematics 1043 or a higher level course.

4523 Applied Social Work Research Methods (3) F
The research methods course is designed to provide students the hands-on opportunity to utilize research knowledge in the design and completion of an incremental research project, working alongside and receiving feedback from peers, as well as the course instructor. Prerequisites: Social Work 2313, 3613, 4513 and Sociology 1123. Open to social work majors only. This course may satisfy the SALT Tier II requirement.

4903 Seminar in Social Work Practice (3) SP
This course provides an opportunity for the students to analyze their field experiences and integrate theory with practice. Students meet for three hours each Friday to demonstrate competence in applying curricular content to the practicum setting and responsibilities therein. Students discuss and debate the practicalities and realities of delivering social welfare services—to individuals, groups or communities—with an emphasis on the student's pursuing his or her major career interest. Taken concurrently with Social Work 491B. Open to social work majors only.

491B Social Work Practicum II (12) SP
The student will be assigned to a social service agency 32 hours per week, for a total of 448 hours. The agency will provide a planned experience in social work practice with individuals, groups and communities under professional supervision. The student must complete an application and be accepted by social work faculty for placement. Prerequisites: Social Work 3623, 3632. Open to social work majors only.

Sociology (SO)

1123 Introduction to Sociology (3) F, SP, SU
A basic study of the nature of human society, with its structure, forces and changes.

2103 The Family (3) F, SP, SU
A study of the family, its history, development and problems. Emphasis is placed on its structure and functions as a social institution.

2113 Social Problems (3) SP, SU
A study of contemporary difficulties and disorganization facing modern society.

**3023 Criminology (3)
Offered on demand**
A study of the nature, causes and treatment of crime and delinquency. Offered on sufficient demand and scheduling availability.

**401V Independent Reading and Research (1, 2, 3)
Offered on demand**
Directed individual reading in sociological classics, study or research for advanced students. Permission of the instructor required.



School of Fine and Performing Arts

Department of Art

Warren Greene, Associate Professor and Academic Chair

Rocky Horton, Associate Professor

Angela Lee, Visiting Professor

Clifford E. Tierney, Associate Professor

The Department of Art fosters aesthetic development and provides strong foundations in historical, theoretical, and critical studies in art as it is applicable to each major. We currently offer two Bachelor of Fine Arts degrees—Graphic Design and Studio Art—and four Bachelor of Arts degrees with comprehensive studies in art education, general studies in art, graphic design and studio art. The department also offers minors in graphic design, art and art history.

Distinctives of the Art Department

The Department of Art has access to numerous museums, galleries, local artists' studios, conferences and graphic design firms in Nashville. Prime museums include the Frist Center for the Visual Arts, Cheekwood Museum of Art, Tennessee State Museum and the Parthenon Gallery as well as Nashville's downtown public library, which has exhibitions and speakers on art, photography and graphic design. In addition, many local artists open their private studios to the public and show regularly around the city.

The department as well as the city of Nashville provides students with the opportunity to get involved with a variety of internships. Examples include our students working with other artists in their studios, education-based internships at local art institutions, and hands-on experience at various graphic design firms and agencies. The department also encourages our students to participate in Lipscomb's global learning programs.

The Department of Art offers a Visiting Artist Program (VAP) that serves to educate and foster a greater understanding and appreciation of contemporary art through critical discourse. This program features prominent artists throughout the academic year and brings them to Nashville to interact with students and the community over a period of two to three days.

Situated in Nashville, Lipscomb is positioned within driving distance of numerous cities with outstanding arts resources: St. Louis, Mo.; Birmingham, Ala.; Chattanooga, Tenn.; Chicago, Ill.; Louisville, Ky.; Memphis, Tenn.; Atlanta, Ga.; and Cincinnati, Ohio. Every academic year, art majors go on field trips with professors so that all art majors can experience their major area of graphic design, studio art and art education in an "out-of-school" context.

Career Opportunities

Industrial, technical and scientific artists are needed to prepare the thousands of visual aids and publications for business, government and educational institutions. Some of the opportunities available to art graduates include:

- Graphic designer
- Page designer
- Print designer
- Art conservator
- Curator
- Creative art director
- Art educator
- Fine artist
- Exhibition designer
- Corporate art designer
- Industrial designer
- Arts management
- Professional photographer
- Theatre designer/stage crafter

Departmental Admission Requirements

A strong academic background will be valuable. Any art courses or experiences requiring artistic skills should be sought. A portfolio of high school art work is required of all incoming students, freshmen and transfers, and will be used to determine initial admission to the program and scholarship recipients.

Please note: Post-foundation portfolio reviews will take place after a student has completed core foundation classes. Reviews will be conducted by faculty. If a student does not demonstrate foundational skills and abilities that are needed to gain access to the upper level courses, students will not receive the necessary recommendation for advancement in the program.

The Department of Art does not supply printing labs and does not cover students' printing costs.

Requirements for Majors

Graphic Design Major

B.F.A. degree program only

Total hours required— 77

Specific courses required—

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Required graphic design courses:

Art 3713, 3723, 3733, 3763, 3773, 3913, 4912, 4943

Choice of 18 hours from the following:

Art 2253, 2263, 2313, 2323, 3113, 3913, 3123, 3763, 419V

Art history courses:

Art 2513, 4813, 4823, 4843, 3133, 4933

Note: The B.F.A. in graphic design has a built-in minor of art history. No other minor is required.

Studio Art Major

B.F.A. degree program only

Total hours required— 77

Specific courses required—

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Required studio second tier courses:

Art 2253, 2313, 2613, rotating special topics in studio art

21 hours selected from:

Art 2213, 2233, 2223, 2263, 2323, 3113, 3623, 4213, 419V

Required advanced tier courses:

Art 431V, 4932

Art history courses:

Art 3133, 4813, 4823, 4843, 4933, 6 hours of additional courses from rotating special topics in art history

Note: The B.F.A. in studio art has a built-in minor of art history. No other minor is required.

Art Major - Graphic Concentration

B.A. degree program only

Total hours required— 51

Specific courses required—

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Graphic design courses:

Art 3713, 3723, 3733, 3773, 3913, 4943

Art history courses:

Art 2513, 4813, 4823

Art Major - Studio Concentration

B.A. degree program only

Total hours required— 51

Specific courses required—

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Studio second tier courses:

Art 2253, 2313, 2613

15 hours selected from:

Art 2213, 2223, 2263, 2323, 3113, 3623, 4213, rotating special topics in studio courses

Art history courses:

Art 4813, 4823

Art Therapy Major

B.A. degree program only

Total hours required— 75

Specific courses required in art— 57 hours

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Studio second tier courses:

Art 2213, 2253, 2313, 2613

Art history and theory courses:

Art 3133, 4813, 4823, 4843

Choice of 9 hours of studio course electives at the 2000 level or above

Specific courses required in psychology—18 hours

Psychology 2423, 2503, 3413, 3463, 3513, 4423

*Psychology 1113 must be taken prior to beginning this minor

Note: Art therapy majors have a built-in minor in psychology and are not required to take another minor.

Visual Arts Administration Major

B.A. degree program only

Total hours required— 69

Specific courses required in art— 51 hours

Foundation courses:

Art 1033, 1043, 1053, 1213, 1513, 1723

Art history, theory and practice courses:

Art 2513, 3133, 4813, 4823, 4843, 4933, 12 hours of special topics in art history, art administration, interdisciplinary courses, and/or internships

Specific courses required in business— 18 hours

Accounting 2503

Business Administration 3703

Entrepreneurship 2503

Management 3503 and 4453

Marketing 3503

*Economics 2503 must be taken prior to beginning this minor

Note: Visual arts administration majors have a built-in minor in business and are not required to take another minor.



Visual Arts Teaching Major

B. A. degree program only

- I. General education required of secondary and K-12 teacher education students. See the Department of Education section.
- II. Professional education
 - A. Core professional education
 - B. Specialized professional education Art 3503
- III. Subject matter specialization

Specific courses required—
Foundation courses:
Art 1033, 1043, 1053, 1213, 1513, 1723

Other required courses:
Art 2253, 2613, 3513, 4933, and three additional studio art courses of choice

Art history courses:
Art 4813, 4823, 4843

Note: Visual arts teaching majors have a built-in minor in education and are not required to take another minor.

Requirements for Minors

Art Minor

Total hours required— 18

Specific courses required

Art 1033, 1043, 1053, 1213, 1513, 1723

Choice of two additional studio courses

(Art 1813 does not count toward the minor.)

Art History Minor

Total hours required— 18

Specific courses required—

Art 4813, 4823, 4843

Choice of three additional art histories/theories

Graphic Design Minor

Total hours required— 18

Specific courses required—

Art 1033, 1043, 1213, 3713

Choice of two additional courses in graphic design

Course Descriptions

Art (AR)

All studio-length courses have a \$75 studio fee.

1033 Foundation Studio I (3) F

This course is the first in the sequence of courses where students are initiated into the process of art making. Drawing techniques, design elements, sculptural techniques and elements, as well as learning how to use a variety of tools and non-traditional materials. Studio course meets six hours each week. Studio fee: \$75.

1043 Foundation Studio II (3) SP

The Foundations course sequence hones a sense of creativity and craftsmanship within a variety of chosen media forms taken from the Foundations Studio I - Materials course. Prerequisite: Art 1033. Studio course meets six hours each week. Studio fee: \$75.

1213 Color Theory (3) F, SP

This course explores historic and contemporary approaches to color use color use in art and culture. Students are required to complete experiments and projects to understand the implications color within a variety of cultural contexts. Studio fee: \$75.

1053 Foundation Studio III (3) F

This course is the fourth required in the art sequence and allows the students freedom to explore previous unresolved propositions from Foundations Studio I and Studio II. Students will be required to use this course to develop a portfolio to be presented at the end of their third semester of course work. Prerequisite: Art 1043. Studio fee: \$75.

1513 Conceptualization and Presentation (3) F, SP

This is a foundation course with emphasis on concept, visual language, and content. It includes studies in areas such as preconceptions, value systems, visual semantics, art criticism and analysis of visual culture. Strongly suggested corequisite with Art 1113 or 1123. Studio fee: \$75.

1723 New Media Studio (3) F, SP

This course sets to explore new forms of media including video, performance, and digital photography and design. Students will be lead through both historical and contemporary applications to gain a better understanding of how non-traditional forms of media are put into practice by artists, filmmakers and designers.

1813 Art Appreciation (3) F, SP, SU

A general survey of art and architecture emphasizing the dawn of Modernism and Contemporary practices. Students will identify important works from major artistic periods, including styles, ideology, and factors contributing to such artistic production.

- 2213 Fundamentals of Ceramics (3) Offered on demand**
Introduction to hand-built clay vessels and wheel throwing and the various processes and tools associated with these forms. Historical and contemporary overview of ceramics provided. Studio course meets six hours each week. Studio fee: \$75.
- 2223 Intermediate Ceramics (3) Offered on demand**
Intermediate hand building and wheel throwing encouraging students to develop independent strategies built on the Fundamentals of Ceramics. Prerequisites: Art 2213 and successful portfolio review. Studio course meets six hours each week. Studio fee: \$75.
- 2233 Fundamentals of Sculpture (3) Offered on demand**
Introductory-level sculpture course exploring the history of and current trends within contemporary sculpture. Studio course meets six hours each week. Studio fee: \$75.
- 2253 Fundamentals of Printmaking (3) Offered on demand**
This is an introductory course in the language of printmaking, stressing basic techniques in relief, intaglio and screen printing. Prerequisites: Art 1033, 1043, 1053, 1213, 1513, 1723.
- 2263 Intermediate Printmaking (3) Offered on demand**
This course explores various modalities of printmaking practice. Prerequisite: Art 2253. Studio course meets six hours each week. Studio fee: \$75.
- 2313 Fundamentals of Photography (3) F, SP**
Introductory course in basic studio practice digital photography covering basic principles, use of the camera, and digital image processing and printing techniques. Emphasizes photography as a fine art stressing beginning visual awareness and craftsmanship. Digital SLR camera required. Prerequisites: Art 1033, 1043, 1053, 1213, 1513, 1723. Studio course meets six hours each week. Studio fee: \$75.
- 2323 Intermediate/Advanced Photography (3) Offered on demand**
Continuing course of practice in photography. Covers further advanced techniques in digital image editing, processing and printing with an emphasis on developing cohesive portfolios of work. Emphasizes photography as a fine art. Digital SLR camera required. Prerequisite: Art 2313. Studio fee: \$75. This course may satisfy the SALT Tier II requirement.
- 2513 History of Graphic Design (3) SP**
Lecture course that explores the processes of early communication modes to the current digital culture. History of print, typography and illustration pertaining to the overall culture of graphic design will be explored.
- 2613 Fundamentals of Painting (3) F**
Introductory course in the language of painting. Student becomes familiar with various painting materials, techniques and two-dimensional composition. Prerequisites: Art 1033, 1043, 1053, 1213, 1513, 1723. Studio course meets six hours each week. Studio fee: \$75.
- 3113 Advanced Printmaking (3) Offered on demand**
Exploration in contemporary printmaking practices challenging preconceived notions of printmaking and its place in the contemporary art world. Prerequisite: Art 2263. Studio course - meets six hours each week. Studio fee: \$75.
- 3123 Creative Design for the Web (3) Offered on demand**
This course discusses the application of graphic design practice and theory to web design. Current trends in web design may also be discussed, including how design and coding fundamentals are applied to solving problems for clients. Prerequisites: Art 3723 and Information Technology 2053. Studio fee: \$75
- 3133 Art Theory (3) SP**
This course provides exposure to seminal authors and their work of art theory, beginning with Plato's Republic through present. Students gain a broad understanding of key concepts from selected readings.
- 3503 Methods of Teaching Visual Arts (3) Offered on demand**
Current methodology in secondary art curriculum, such as developing and leading art experiences, developing lesson plans, and understanding theories of art criticism. Field experience required. For the secondary teacher of art. Prerequisite: Art 3513.
- 3513 Art for Children (3) F, SP**
This course examines concepts, practices, curriculum integration and issues in discipline-based art education. Emphasis on ways of stimulating, guiding and evaluating art learning experiences for children.
- 3623 Intermediate Painting (3) Offered on demand**
This course explores various modalities of contemporary painting practice. Prerequisite: Art 2613. Studio course meets six hours each week. Studio fee: \$75.
- 3713 Foundations in Graphic Design (3) F, SP**
This course emphasizes visual literacy in graphic design. Students will gain the ability to decipher successful from unsuccessful implementation of the visual elements of design by solving graphic design problems. The learner will also apply the fundamentals of visual literacy in design to current industry software and file management. Prerequisites: Art 1722 and 1411. Studio course meets six hours each week. Studio fee: \$75
- 3723 Typography (3) F, SP**
This course covers the anatomy of type, the identification of fonts by their respective class and family, and the successful and unsuccessful use of type. Each assignment will be directed toward understand methods of communication through letterforms, while negotiating the semantics found between letterforms and their context. Prerequisites: Art 3713 and 3773. Studio course meets six hours each week. Studio fee: \$75

- 3733 Trademarks and Identity Systems (3) F**
This course looks at the history, development, and theory of logo design and identity systems. Students complete projects designed to concentrate on logos, trademarks, identity systems, and branding campaigns. Prerequisite: Art 3713 and 3773. Studio course meets six hours each week. Studio fee: \$75. This course may satisfy the SALT II Tier requirement.
- 3763 Packaging Design (3) Offered on demand**
This course focuses on the application of graphic design to simultaneously occupied 2-d/3-d world of product packaging. Projects will be designed and printed to exist in 3-dimensions. Packaging problem solving, project requirements and building applications will be presented through hands-on training in the development of product packaging. Prerequisite: Art 3773. Studio course meets six hours each week. Studio fee: \$75.
- 3773 Designing from the Grid (3) F, SP**
This course is a thorough introduction to the grid as an organizing element in graphic design, including its history and uses. The learner will focus on creating grids for print and web. Prerequisite: Art 3713. Studio course meets six hours each week. Studio fee: \$75
- 3913 Advanced Typography (3) SP**
This course is a continuation of Art 3723 Typography, with a focus on more advanced projects. This course covers the anatomy of type, the identification of fonts by their respective class and family, and the successful and unsuccessful use of type. Each assignment will be directed toward understand methods of communication through letterforms, while negotiating the semantics found between letterforms and their context. Prerequisite: Art 3723. Studio course meets six hours each week. Studio fee: \$75
- 401V Independent Study I (1-3) F, SP, SU**
Independent study courses deepen student understanding of a specified concentration of study. Granted on a case by case basis, a total of three hours is permitted toward a student's major.
- 419V Special Topics in Art (1-3) Offered on demand**
Topics vary. Some special topics courses may be assessed a studio fee. This course may satisfy the SALT Tier II requirement.
- 4213 Advanced Painting (3) Offered on demand**
This course is an exploration in contemporary painting practices. Pre-conceived notions of painting are challenged in contemporary art. The student gains familiarity with creative painting techniques, concepts and emphasizes its criticality and contemporaneous aspects. Prerequisite: Art 3623. Studio course meets six hours each week. Studio fee: \$75.
- 431V Advanced Studio (3,6) Offered on demand**
Emphasizes portfolio development and self-directed studio practice. Students develop a body of work for their senior exhibition and professional portfolio. Prerequisite: At least one of the advanced studio courses offered by the department. Studio course meets six hours each week. Studio fee: \$75.
- 480V Art Travel (1-3) F, SP, SU Offered on demand**
Travel to major cultural centers to view significant works of art. Class lectures, prior to travel, will establish a context for viewing the collections of major museums and galleries. Follow-up research is required. A total of three hours is permitted towards a student's major.
- 4813 Survey of History of Art I (3) F**
This course presents an intensive study of the artistic periods from the Prehistoric Age to the Gothic Era. Strong emphasis is placed on the student's ability to approach art through oral and written components as well as critical thinking.
- 4823 Survey of History of Art II (3) SP**
This course presents an intensive study of the artistic periods from the Renaissance to the 20th century.
- 4843 Art Since 1940 (3) SP**
This course presents an intensive study of the artistic periods from 1940 to contemporary times. Art is stylistically and contextually analyzed with particular attention given to critical theories and history pertaining to the works of art.
- 491V Internship in Art (1-3) F, SP, SU**
This course provides students the opportunity to gain vital experience in a work setting. Prerequisites: Junior standing or above, 3.0 GPA, must have successfully completed portfolio review, and permission of department chair is required. Six hours is permitted toward a student's major.
- 4912 Capstone: Portfolio Development and Portfolio Review (2) F, SP**
Required of B.F.A. in Graphic Design majors during their last semester. Presentation to and approval by an adjudicating committee composed of full and adjunct professors in the Department of Art is required. This presentation includes work from previous courses, influences and directions for future growth as well as a concise agenda for the Capstone. Prerequisite: All required and additional courses for the B.F.A. in Graphic Design. Studio fee: \$75.
- 4932 Capstone: Professional Studio Practices and Senior Exhibition (2) F, SP**
Required of B.F.A. in Studio Art majors during their last semester. Presentation to and approval by an adjudicating committee composed of full and adjunct professors in the Department of Art is required. This presentation includes work from previous courses, influences and directions for future growth as well as a concise agenda for the Capstone. Prerequisite: All required and additional courses for the B.F.A. in Studio Art. Studio fee: \$75.
- 4933 Christianity in the Visual Arts (3) SP**
This course explores the history of Christian imagery, its changing role in the context of worship, and its place in the contemporary art scene.
- 4943 Graphic Design Firm (3) SP**
This is the final required studio course for graphic design majors. This class focuses on professional best practices, business structure, and client best practices. If live client projects are involved, the class structure will mimic that of a real design firm, with the professor acting as art director and the students taking on the role of production designers. SALT credit course. Prerequisites: Art 3713, 3723, 3733, 3773, 3913. Studio course meets six hours each week. Studio fee: \$75. This course may satisfy the SALT Tier II requirement.

Department of Music

Sally Reid, *Professor and Academic Chair*

Marcia A. Hughes, *Professor*

Donna M. King, *Assistant Professor*

Jerome A. Reed, *Patricia and Rodes Hart Professor of Piano*

Stephen L. Rhodes, *Professor*

Gary Wilson, *Professor*

The Department of Music shares Lipscomb University's commitment to Christian liberal arts education and functions as an integral part of that commitment. Our mission is to lead students to an appreciation and comprehension of the creative spirit across time and culture, within the context of the Christian faith.

Recognizing that music is an integral part of a liberal arts education, the Department of Music seeks to provide:

- *innovative instruction for students pursuing careers in traditional and non-traditional music fields,*
- *engaging opportunities for each university student to participate in rich and varied musical experiences,*
- *enriching events for the university and larger community to experience music through concerts and collaborative workshops, and*
- *valuable resources for church music ministries.*

Distinctives of the Music Department

The Lipscomb University Department of Music is an accredited institutional member of the National Association of Schools of Music. The Department of Music was also the first in the nation to require music majors to sit for the Associated Board of the Royal Schools of Music (ABRSM) exams and continues to offer students the opportunity and support for testing through the diploma level. Any incoming freshman student who has already passed the ABRSM Grade 8 Exam and wishes to major in music automatically qualifies for a music scholarship of \$1,000 per semester.

The Department of Music collaborates with the College of Bible and Ministry to offer an interdisciplinary major in worship ministry to provide students with the knowledge and skills to assist congregations in meaningful, purposeful times of worship.

The department's applied music classes and private lessons are taught by full-time faculty, adjuncts or private instructors selected from the wealth of talent available in Nashville, including members of the Nashville Symphony Orchestra and leading studio musicians.

Private lessons and ensembles are open to all university students. Performance opportunities include: A Cappella Singers, University Singers, University Wind Ensemble, Chamber Orchestra, Jazz Ensemble, Vocal Ensemble, Opera Workshop, New Music Ensemble, String Ensemble and various chamber groups. Internships in music-related fields are available.

SALT participation opportunities are provided within the distinctive performance context offered by the department.

Career Opportunities

The Department of Music provides formal preparation for the following careers:

- Teacher in public or private school settings, K-12
- Composer/arranger
- Independent music teacher
- Private studio teacher
- Studio musician
- Worship minister
- Orchestral musician
- Music editor
- Music publisher
- Music consultant
- Music critic
- Music educator
- Music technologist
- Graduate studies
- Professional singer/songwriter
- Strong liberal arts foundation for professional study in medicine and law and for anyone planning to use music in their chosen profession or for their personal enjoyment.

Departmental Admission and Curriculum Requirements

- Theory and piano placement exams prior to first registration
- Audition on major performance medium no later than end of first semester of study
- Attendance at faculty and student recitals
- Jury examinations at the end of each semester of applied lesson instruction
- Upper-division hearings at the end of the sophomore year
- ABRSM Grade 5 Exam (Grade 8 optional)
- Junior and senior recitals for performance and composition majors
- Senior recital for music teaching majors as well as those seeking to earn a B.A. or B.S. degree
- Ensemble participation for all music majors
- Piano proficiency
- ABRSM diploma exam
- A grade of "C" or higher in all music courses

Requirements for Majors

Music Major (Emphasis in Instrumental Performance)

B.M. degree program

Total hours required— 78

Specific courses required—

Music 1111, 1121, 1133, 1143, 1202, 2111, 2133, 2143, 2402, 3011, 3112, 3303, 3403, 3413, 3423, 4002, 4012, 4020, 4103, 4112, 4433, 4612, 4632

Sixteen hours of private lessons on major instrument for credit, at least eight hours at the 3000 level.

Four hours of private lessons on a secondary instrument for credit.

Participation and a passing grade in a major instrumental ensemble are required for eight semesters for credit.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Note: No minor is required.

Music Major (Emphasis in Composition)

B.M. degree program

Total hours required— 78

Specific courses required—

Music 1111, 1121, 1133, 1143, 1202, 2111, 2133, 2143, 2402, 3011, 3112, 3303, 3403, 3413, 3423, 3503, 4012, 4020, 4103, 4112, 4423, 3513 or 4433, 4612, 4622 or 4632

Sixteen hours of private lessons in composition for credit, at least eight hours at the 3000 level.

Participation and a passing grade in a major ensemble for eight semesters for credit, including Music 1091 (New Music Ensemble) for two semesters.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Note: No minor is required.

Music Major (Emphasis in Piano Performance)

B.M. degree program

Total hours required— 79

Specific courses required—

Music 1111, 1121, 1133, 1143, 1202, 2111, 2133, 2143, 2402, 3011, 3112, 3303, 3403, 3413, 3423, 4002, 4012, 4103, 4112, 4232, 4423, 3513 or 4433, 4612, 4622 or 4632

Sixteen hours of private lessons in piano for credit, at least eight hours at the 3000 level.

Participation and a passing grade in Music 2211 Collaborative Piano are required for eight semesters.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Note: No minor is required.

Music Major (Emphasis in Vocal Performance)

B.M. degree program

Total hours required— 76

Specific courses required—

Music 1111, 1121, 1133, 1143, 1202, 2111, 2133, 2143, 2402, 3011, 3112, 3303, 3403, 3413, 3423, 3513, 4002, 4012, 4020, 4103, 4112, 4202, 4412, 4612

Sixteen hours of private lessons in voice for credit, at least eight hours at the 3000 level.

Participation and a passing grade in a major vocal ensemble is required for eight semesters for credit, including Music 1040 or 1041 (Opera Workshop) for two semesters.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Note: No minor is required.

Music Major

B.A. degree program

Total hours required— 46

Specific courses required—

Music 1111, 1121, 1133, 1143, 2111, 2133, 2402, 3403, 3413, 3423, 4001, 4020, 4612

Twelve additional hours to be chosen from:

Music 1202, 2143, 3112, 3303, 3513, 4103, 4112, 4202, 4232, 4412, 4423, 4433, 4622, 4632, private lessons on a secondary instrument for credit (4 hours maximum), participation in additional ensembles for credit (8 hours maximum)

Eight hours in private lessons on major instrument for credit, at least four hours at the 3000 level.

Participation and a passing grade in a major ensemble for eight semesters.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Music Major

B.S. degree program

Total hours required— 49-51

Specific courses required—

Music 1111, 1121, 1133, 1143, 2111, 2133, 2402, 3403, 3413, 3423, 4001, 4020, 4612

15-17 additional hours to be chosen from:

Music 1202, 2143, 3112, 3303, 3313, 3513, 4103, 4112, 4202, 4232, 4412, 4423, 4433, 4622 or 4632, private lessons on primary and secondary instruments and/or participation in additional ensembles (10 hours maximum)

Eight hours in private lessons on major instrument for credit, at least four hours at the 3000 level.

Participation and a passing grade in a major ensemble for eight semesters.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Total hours required— 46-48

Specific courses required—

Biology 1134, 1144, 2114, 3514, 3524

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221
 Mathematics 1113 and 1123 or 1314 and 2314
 Physics 1214 and 1224 or 2414 and 2424

Note: The Bachelor of Science degree in music is paired with math/science courses that prepare students for a professional program in the sciences. The degree includes courses in mathematics and science and prepares students for the MCAT exam at the end of the junior year.

Music Teaching Major (Instrumental)

B.M. in Music Education degree program only

Leads to K-12 licensure

- I. General education required of secondary and K-12 teacher education students. See the Department of Education section.
- II. Professional education
 - A. Core professional education
 - B. Specialized professional education
 Music 2843, 2852, 2881, 4224, 4243
- III. Subject matter specialization
 Music 1111, 1121, 1133, 1143, 2111, 2133, 2143, 2402, 3112, 3413, 3423, 4000, 4020, 4112, 4612, 4632

Ten semester hours for credit in ensembles is required. (8 hours in a major instrumental ensemble, 1 hour in a choral ensemble and 1 hour in an ensemble of student's choice)

Eight hours of one instrument must be taken for credit, at least four hours at the 3000 level.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Music Teaching Major (Vocal/General Music)**

B.M. in Music Education degree program only

Leads to K-12 licensure

- I. General education required of secondary and K-12 teacher education students. See the Department of Education section.
- II. Professional education
 - A. Core professional education
 - B. Specialized professional education
 Music 4202, 4213, 4243, 4412 or 4232
- III. Subject matter specialization
 Music 1111, 1121, 1133, 1143, 2111, 2133, 2143, 2402, 3112, 3413, 3423, 4000, 4020, 4112, 4612, 4622

Twelve semester hours for credit in ensembles are required. (8 hours in a major choral ensemble and 4 hours in opera workshop or smaller vocal ensembles.)

Eight hours of private voice for credit, or four hours voice and eight hours piano for credit are required, at least four hours at the 3000 level.

Enrollment and a passing grade in Music 2000 are required for eight semesters.

Interdisciplinary Major in Worship Ministry — See College of Bible and Ministry section for details.

Requirements for Minors

Music (General) Minor

Total hours required— 15

Specific courses required—

Music 1111, 1133, 2402

Two credit hours selected from:

Music 1611, 1641, 1652 (piano)

Seven credit hours selected from other music offerings (except Music 1103)

Musical Theatre Minor (For Theatre Majors Only)

Total hours required— 17

Specific courses required—

Music 1111, 1133, 2402 (or TH 3803)

Two credit hours selected from:

Music 1611, 1641, 1652 (piano)

Five credit hours private or class voice

Four credit hours selected from other music offerings (except Music 1103)

Worship Ministry Minor

Total hours required— 17

Specific courses required—

Music 1111, 1133, 2402, 3303, 3403, 4020

Two credit hours selected from:

Music 1611, 1641, 1652 (piano)

Course Descriptions

Music (MU)

1000, 1001 A Cappella Singers (0, 1)

1010, 1011 University Singers (0, 1)

1020, 1021 Chamber Singers (0, 1)

1030, 1031 Vocal Jazz Ensemble (0, 1)

1040, 1041 Opera Workshop (0, 1)

1050, 1051 University Wind Ensemble (0, 1)

1060, 1061 Jazz Ensemble (0, 1)

1070, 1071 Early Music Consort (0, 1)

1080, 1081 Chamber Orchestra (0, 1)

1090, 1091 Chamber Ensemble (0, 1) .01 String Ensemble, .02 Guitar Ensemble, .03 Flute Ensemble, .04 Percussion Ensemble, .05 New Music Ensemble

2200, 2211 Collaborative Piano (0, 1)

**Students who enroll in an ensemble for non-credit may not opt to change that to credit status after the published deadlines for making course changes in a given semester.

1103	<p>Fundamentals of Music (3) F This course is designed for music majors, worship ministry majors, music minors and non-majors with little or no previous training in music theory. Written and aural skills, notation, rhythm, scales, key signatures, time signatures, intervals and triads are included in the course of study. Minimum grade of "C" required to proceed to Music 1133. This course may be counted as elective credit but is not a part of any major or minor program in music.</p>	2843	<p>Brass and Percussion Methods (3) SP Offered even-numbered years Develops functional playing ability and pedagogical considerations for the brass and percussion instruments.</p>
1111, 1121	<p>Sight-Singing, Ear-Training I (1) SP, II (1) F Includes rhythmic, melodic and harmonic reading and dictation, error detection and sight-singing. Courses to be taken in sequence. Prerequisite for 1111 is Music 1103 or pass theory placement exam. Corequisite, respectively: Music 1133 and 1143. Prerequisite for Music 1121 is a passing grade in Music 1111. Minimum grade of "C" required to proceed to Music 2111.</p>	2852	<p>Woodwind Methods (2) F Offered odd-numbered years Develops functional playing ability and pedagogical considerations for woodwind instruments.</p>
1133, 1143	<p>Theory I (3) SP, II (3) F The first year of college music theory, including part-writing, harmonic analysis, and melodic harmonization applied to music of the common practice period (1600-1900). Courses to be taken in sequence. Prerequisite for 1133 is Music 1103 or pass theory placement exam. Corequisite, respectively: Music 1111 and 1121. Prerequisite for Music 1143 is a minimum grade of "C" in Music 1133. Minimum grade of "C" required to proceed to Music 2133, 3413 and 3423.</p>	2881	<p>String Methods (1) SP Offered odd-numbered years Develops functional playing ability and pedagogical considerations for string instruments.</p>
2000, 2001	<p>Recital Seminar (0, 1) Required of all music majors during every semester of full-time enrollment.</p>	300V	<p>Independent Study (1, 2, 3) Offered in unusual situations.</p>
2111	<p>Sight-Singing, Ear-Training III (1) SP Continuation of the development of aural skills including dictation and sight-singing. To be taken concurrently with Music 2133. Prerequisite: Music 1121. Minimum grade of "C" required to proceed as music major.</p>	302V	<p>Special Topics in Music (1-3) Offered on demand A variety of topics will be offered. The course will provide an in-depth study of the specified topics which normally receive only brief mention in survey courses. Topics will be announced in the semester schedule. Prerequisite: consent of the instructor and academic chair.</p>
2133	<p>Theory III (3) SP A study of chromaticism in the common practice period, including an introduction to Schenkerian reduction techniques. Corequisite: Music 2111. Prerequisite is a passing grade ("C" for majors) in Music 1143.</p>	3011	<p>Junior Recital, Performance Emphasis (1) F, SP A demonstration of the student's performance fluency at the close of the junior year.</p>
2143	<p>Theory IV (3) F A study of post-tonal music and related compositional materials, techniques and analytical systems including impressionism, serialism, the Hindemith series, integral serialism, electronic music, indeterminacy, minimalism and Forte set theory. Includes a study of compositional process in traditional Indian classical music and other world musics. Prerequisite is a passing grade ("C" for majors) in Music 2133.</p>	3112	<p>Form and Analysis (2) SP A study of the general principles which govern the structure of music. The course includes experiences in Schenkerian reduction analysis and covers traditional Western music forms in many genres, as well as form in popular music and various world musics. Prerequisite: Minimum grade of "C" in Music 2143.</p>
2402	<p>Music Literature (2) SP A survey of music literature from the historical periods, with listening experiences and examination of scores of representative works. Prerequisite: minimum grade of "C" in Music 1143. Meets 3 hours.</p>	3203	<p>Music for Children (3) F, SP A study of the child's singing voice and a survey of age appropriate materials, methods, and activities. Fulfills the arts requirement for all interdisciplinary K-6 majors unless they are music minors, who take Music 4243.</p>
		3303	<p>Music in Worship I (3) F* Designed to provide the potential worship leader/minister with the musical tools necessary to function effectively in a local congregation. The course will focus on leading congregational worship and finding music appropriate for worship and working with church singers, both individually and in praise teams or choirs. Open to students in any degree program.</p>
		3313	<p>Music in Worship II (3) SP* Offered odd-numbered years This course is designed to provide the potential worship leader/minister with the practical tools necessary to plan worship and administer a worship ministry in a local congregation. The course will focus on the following areas: identifying and utilizing worship ministry resources, planning meaningful worship services, arranging music for a cappella worship, utilizing</p>

	worship related software and technology and administering a music/worship ministry. Prerequisites: Music 1121, 1143 and 3303.		
3403	History of Church Music (3) SP* Offered even-numbered years A study of the history of music in the church with emphasis on the cultural backgrounds and practice of music in the Bible, the impact of the Reformation, and recent trends within American church music. Open to students in any degree program.		
3413, 3423	History of Music I, II (3, 3) F, SP A survey of music in Western culture from its ancient Greek beginnings to the present; particular attention is given to the development of stylistic concepts through the extensive use of scores and recordings. Prerequisite: Theory III and minimum grade of "C" in MU 2133 and MU 2402.	4103	Counterpoint (3) F Offered odd-numbered years A course designed to give students writing experience in two- and three-voice 18th century counterpoint. Major projects will include the writing of a two-part invention, a passacaglia and three-voice fugue. Prerequisite: MU 2133.
3503	Digital Audio Synthesis (3) F Offered even-numbered years Fundamental concepts and techniques of digital audio synthesis, signal processing, and sound design, including an introduction to applications for recording, sequencing, editing and synthesis relevant to the generation, processing, recording and reproduction of sound.	4112	Orchestration (2) SP This course covers the techniques of writing for the instruments of the orchestra and concert band, individually and in various combinations. The range, transposition and idiomatic characteristics of each instrument are studied. Prerequisite: MU 2133.
3513	Solo Vocal Literature (3) SP Offered even-numbered years Survey of art song literature from Italy, France, Germany, Great Britain, Russia, Spain, South America, eastern Europe and the United States. The student will become familiar with basic and advanced vocal literature for all voice types to learn to program, plan and develop solo recitals. Prerequisites: One year of private voice study, Music 2402.	4202	Voice Pedagogy (2) F Offered even-numbered years A study of the various techniques and concepts used in teaching voice. Special emphasis is placed on learning to communicate sound principles of vocal production. Required of all vocal applied and music teaching majors.
390V	Internship in Music (1-3) Provides students the opportunity to gain experience in a work setting. Prerequisite: proposal submitted to professor in charge and approved by academic chair. Open to juniors and seniors.	4213	Choral Methods (3) SP Offered even-numbered years A detailed study of the vocal music program in the secondary schools; emphasis is given to appropriate methods and materials of instruction. Lab included.
4000	Recital (0) Senior, emphasis in teaching.	4224	Instrumental Methods (4) F Offered even-numbered years A detailed study of the secondary instrumental music program emphasizing classroom discipline and methods, materials of instruction, teaching philosophy, musical acoustics, literature selection and marching show charting and design.
4001	Senior Recital (1) F, SP A culmination of the student's performance and scholarly study, representing work across multiple semesters. In addition to a traditional recital format, a lecture recital or equivalent project may be approved to fulfill this degree requirement.	4232	Piano Pedagogy (2) F Offered odd-numbered years A study of teaching methods and materials, the history of pianism, professional organizations and business aspects of teaching.
4002	Pedagogy Practicum (2) SP Offered even-numbered years A structured opportunity for pedagogy students to gain experience in teaching beginning students under the supervision of experienced instructors.	4243	Elementary School Music (3) F Offered even-numbered years Methodology, aims and materials of teaching music in elementary school, including Orff and Kodaly techniques; required of all music education majors and music minors who are interdisciplinary K-6 majors. Lab included.
4012	Senior Recital, Performance Emphasis (2) F, SP A culmination of the student's performance study, representing work across multiple semesters to develop performing fluency on a body of literature, as well as additional research for purposes of analysis, historical performance practice and program preparation.		

*available for Bible credit

4412 Diction for Singers (2) F
Offered odd-numbered years
 Diction for Singers will train students in using the International Phonetic Alphabet (IPA) and in pronouncing Latin, Italian, French and German for the purposes of singing art songs and choral compositions. The class will include information on how to pronounce each language as well as practical experience with beginning level vocal solo literature and secondary level choral pieces.

4423 Piano Literature (3) F
Offered even-numbered years
 A survey of harpsichord and piano literature from the 18th century to the present. Prerequisite: Music 2402.

4433 Instrumental Chamber Literature (3) SP
Offered even-numbered years
 A survey of chamber music literature written for string and wind instruments from the Renaissance to the present, with special emphasis on major works within each type of instrumentation and within the output of major composers for chamber ensembles. In addition to a core of essential works, special emphasis (major course project) will be given to the performance areas of the individual students. A significant portion of the class will be spent in listening and score reading. Prerequisite: Music 2402.

4612 Conducting (2) F
 Introduction to the physical and psychological fundamentals of conducting, with limited emphasis on interpretation, style and rehearsal procedures. Prerequisites: Music 1121 and 1143.

4622 Choral Conducting and Literature (2) SP
Offered odd-numbered years
 A study of specific techniques used in conducting and rehearsing choral ensembles and a survey of choral literature representative of the commonly performed styles. Prerequisite: Music 4612.

4632 Instrumental Conducting and Literature (2) SP
Offered odd-numbered years
 Exposure to specific techniques used to conduct and rehearse instrumental ensembles with specific emphasis on score analysis and available literature for the medium, both from a functional and historical standpoint. Prerequisite: Music 4612.

Class Instruction in Applied Music (MU)

1202 Issues for Performers (2) SP
Offered odd-numbered years
 A study of the problems and issues confronting performers that are not covered in other courses. Topics include stage etiquette, program construction, performance anxiety and the psychology of performing, auditions, time management, practice techniques and networking resources. The class also suggests ways to stay current on performance practices and remain aware of the music scene in major metropolitan areas.

1541 Class Voice (1, 1) F, SP
 A study of the fundamentals of singing, including breathing, posture, diction and voice quality. One class meeting per week. Should be taken prior to private voice study.

1642 Class Piano (1, 2) F, SP
 Introductory keyboard instruction designed to develop facility with major and minor scales, simple cadences, sight-reading, improvisation and harmonization of simple melodies with primary chords and transposition.

1652 Class Piano (1, 2) F, SP
 Elementary keyboard instruction designed to develop facility with major and minor scales and arpeggios, chords, improvisation, sight-reading in four-part textures, harmonization of simple melodies with appropriate chords and accompaniment patterns and transposition beyond five-note positions. Prerequisite: Music 1642 or placement by piano faculty.

Individual Instruction (MU)

Individual instruction classes require, in addition to the tuition charge, a special fee as listed in Section 4. Courses numbered 3000 or above require consent of the department. Any individual instruction course may be repeated.

1410 Composition (0)

1411, 3411 Composition (1, 1)

1412, 3412 Composition (2, 2)

1510 Voice (0)

1511, 3511 Voice (1, 1)

1512, 3512 Voice (2, 2)

1610 Piano (0)

1611, 3611 Piano (1, 1)

1612, 3612 Piano (2, 2)

1710 Guitar (0)

1711, 3711 Guitar (1)

1712, 3712 Guitar (2)

1810 Strings (0)

1811, 3811 Strings (1, 1)

1812, 3812 Strings (2, 2)

1910 Brass, Woodwinds, Percussion (0)

1911, 3911 Brass, Woodwinds, Percussion (1, 1)

1912, 3912 Brass, Woodwinds, Percussion (2, 2)

Department of Theatre

Mike Fernandez, Associate Professor and Academic Chair

Larry A. Brown, Professor

David Hardy, Assistant Professor

The Lipscomb University Theatre Department is dedicated to training the next generation of believer artists who seek to have a positive influence on the world and become leaders in the entertainment industry. To achieve this, we have created a department built on the ideals of community, worship and quality training. It is also our goal to build an exciting theatre known for quality productions that entertain as well as challenge the community.

B.F.A. in Theatre with Track Emphasis

This pre-professional degree allows the dedicated theatre student an opportunity to take classes geared toward a specific interest in theatre. This degree is appropriate for those who upon graduation wish to go directly into the professional theatre world. It is also designed for those who wish to go to graduate school for an M.F.A.

B.A. Degree in Theatre, Theatre Ministry or Theatre Education

The general theatre degree plan is an excellent choice for students who love theatre but also have other interests. Students wishing to double-major in theatre and some other field should also pursue the general theatre degree.

The theatre ministry degree is an exciting area that is growing rapidly. We want broaden the definition of theatre ministry and are looking for students who are eager to define what it means to infuse faith with every aspect of life and career.

Teaching is a noble career, and Lipscomb is known for producing excellent teachers. Students interested in teaching at the elementary, junior high, or high school level should choose the theatre teaching major.

Distinctives of the Theatre Department

Internships

Students are encouraged each summer to participate in internships throughout the city and the country. Our students have served at several prestigious theatres including the Nashville Children's Theatre, which is among the top five children's theatres in the country.

London Study Abroad and New York Trip

Theatre students have a unique opportunity to spend a summer in London studying theatre and watching shows in London's vaunted West End. Students can also spend one week a year going to New York to watch Broadway shows.

Children's Theatre Company

The touring Children's Theatre Company is comprised of theatre students who experience the fun of working with children and performing for them in schools, churches, daycares, hospitals, and the like. Some scripts are written or adapted by the students themselves. The troupe travels in and around Nashville and often tours in an international town, such as Newport, Wales; London, England; or Ascension, Paraguay.

Strong Professional Connections

Lipscomb is committed to bringing in visiting artists with strong professional credentials. Previous artists have included Jeff Obafame Carr, founder of Nashville's Amun Ra Theatre; Justin Boccitto of the Group Theatre Too in New York City; and Equity actors like Nan Gurley. We also have strong working relationships with professional theatres in Nashville such as The Nashville Shakespeare Festival, The Tennessee Repertory Theatre, Actors Bridge Ensemble and Amun Ra Theatre.

Faculty are working professionals

Our faculty don't just teach, they do! Vali Forrister, who teaches Meisner acting classes, is the artistic director for Actor's Bridge Ensemble. Robyn Berg, adjunct in Period Styles, is a teaching artist for the Nashville Shakespeare Festival.

Career Opportunities

- Actor
- House manager
- Box office
- Personal manager
- Producer
- Critic
- Director
- Costume draper
- Dresser
- Creative dramatics
- Multi-media sales
- Recreation
- Recreational organizations
- Consultants
- Agent
- Key grip
- Marketing manager
- Choreographer
- Costume designer
- Scenic designer
- Sound engineer
- Technical director
- Voice coach
- Workshops
- Industrial shows
- Community theatres
- Theatre industries
- Sales
- Artistic director
- Best boy
- Publicity
- Production coordinator
- Costume cutter
- Dramaturge
- Fight choreographer
- Communication
- Radio broadcasting
- Park districts
- Artists
- Engineers
- Gaffer
- Lighting designer
- Casting director
- Costume builder
- Props master
- Screenplay writer
- Stage manager
- Theatre manager
- Teaching
- Commercials
- Television
- Corporations
- Technicians

In addition to the fields listed above, there are other less obvious applications of the theatre degree. There has been a growing trend by many graduate programs to encourage undergraduates to get a degree in something that is not directly related to their particular area. Law schools, medical schools and the like are beginning to understand how powerfully the following skills, all integral to theatre training, can equip one for "real life:" working within a deadline, collaborative effort, stamina, conceptual skills, analytical thinking, fiscal responsibility, creativity, working successfully with people, communication skills, management skills, organizational ability, making an idea become tangible, creative research, taking direction, problem-solving and the confidence to embrace new ideas.

Requirements for Majors

Theatre Major with Track Emphasis

B.F.A. degree program

Acting Track Emphasis

Total hours required - 63

Specific courses required:

Theatre 1513, 1533, 2113, 2123, 2143, 2153, 2253, 2453, 3013, 3023, 3033, 3043, 3433, 3443, 4013, 4033, 4102, 4112, 4nnV (3)

Eight 1-hour practica are required

Directing Track Emphasis

Total hours required - 57

Specific courses required:

Theatre 1513, 1533, 2113, 2123, 2143, 2223, 2453, 3013, 3023, 3033, 3433, 3443, 4023, 4033, 4102, 4112, , 4nnV (3)

Eight 1-hour practica are required

Design/Tech Track Emphasis

Total hours required - 60

Specific courses required:

Family and Consumer Science 3103
Theatre 1513, 1533, 2113, 2163, 2213, 2453, 3013, 3023, 3033, 3053, 3063, 3073, 3433, 3443, 4102, 4112, 4nnV(3)

Eight 1-hour practica are required

Musical Theatre Track Emphasis

Total hours required - 62

Specific courses required:

Theatre 1513, 1533, 2113, 2123, 2143, 2153, 2453, 3013, 3023, 3433, 3443, 4033, 4043, 4102, 4112, 4nnV (3)

TH 2131 Theatrical Choreography (8) are required

Eight 1-hour practica are required

Note: Must complete prescribed minor in music

Theatre Major

B.A. degree program

Total hours required - 54

Specific courses required:

Family and Consumer Science 3103
Theatre 1513, 1533, 2113, 2123, 2223, 2453, 3023, 3033, 3433, 3443, 4102, 4112

Eight 1-hour practica are required

Nine hours theatre electives

Theatre Ministry Major

B.A. degree program only

Total hours required - 51

Specific courses required:

Family and Consumer Science 3103
Theatre 1513, 1533, 2113, 2123, 2153, 2223, 2453, 3023, 3033, 3043, 3433, 3443, 4102, 4112

Eight 1-hour practica are required

Theatre Teaching Major

B.A. degree program only

Total hours required - 44

- I. General education required of secondary and K-12 teacher education students. See the College of Education section.
- II. Professional education
 - A. Core professional education
 - B. Specialized professional education: Theatre 3403
- III. Subject matter specialization

Specific courses required:

Theatre 1513, 1533, 2113, 2233, 2453, 3023, 3033, 3413, 3433, 3443

Six 1-hour practica are required

To add ESL endorsement, Foreign Language 4514

Requirements for Add-on Licensure in Theatre Education

Total hours required—29

Specific courses required—

Theatre 1513, 1533, 2113, 2153, 2453, 3413, 3433,
3443, 3491 (3), 4102

Requirements for Theatre Minor

Total hours required - 18

Specific courses required:

Theatre 1513, 2423, 2453

Three 1-hour practica are required

6 hours theatre electives

Requirements for Secondary Emphasis

Theatre majors may also choose to minor in theatre by choosing from the areas below, or they may seek approval of a course of study designed specifically for their interests.

Minor in Acting

Total hours required - 18

Specific courses required:

Theatre 1513, 2153, 2253, 4013, 4033, 4nnV

Minor in Dance (Open to all university students)

Total hours required - 18

Specific courses required:

Theatre 2131 (9 hours), 4043, 4nnV

One 3-hour upper-level elective approved by advisor

Minor in Design/Tech

Total hours required - 18

Specific courses required:

Theatre 2163 or 2213, 3023, 3033, 4nnV

Select two from the following:

Theatre 3053, 3063, 3073

Minor in Directing

Total hours required - 18

Specific courses required:

Theatre 2113, 2223, 3033, 3093, 4023, 4043

Minor in Playwriting

Total hours required - 18

Specific courses required:

Theatre 1533, 2223, 3093, 4nnV

One 3-hour theatre elective approved by advisor

English 2903 or 36n3 or 3733

Requirements for Film & Creative

Media Minors

The mission of the program in Film and Creative Media is to educate the next generation of artists to be independent, entrepreneurial filmmakers who graduate ready to create uplifting content for the digital entertainment marketplace.

The **Production** track is designed for the student who wants to make films. It is a hands-on program where a student will learn to write, film and edit films of all kinds.

Total hours required - 18

Specific courses required:

Theatre 1533, 3491 (3)

FICM 1603, 1703, 1803

Three hours theatre electives selected from:

CO 4104, MU 3503, FICM 3xnV (Producing in the Digital Age or Acting for Film)

The **Film Studies** track is designed for students who want to receive a theoretical understanding of film and digital media and its impact on society. It is an interdisciplinary degree in which students take classes from several different departments on campus. The film studies minor is administered through the English and Modern Languages Department; please reference that department's section for requirements for the minor.

Course Descriptions

Theatre (TH)

1513 Beginning Acting (3) F

Basic training in acting choices, stage technique and creating a character. Involves scene work and character analysis, includes laboratory. Laboratory graded and credited with course.

1533 Text Analysis (3) SP

Students learn basic concepts of dramatic theory and apply them in a critical examination of plays, using five different methods to achieve a detailed understanding of a playscript in preparation for a production.

2113 Beginning Directing (3) F

Basic principles governing play structures, choice and casting are discussed. Requires student directed scenes with lab. Laboratory graded and credited with course.

2123 Voice and Diction for the Stage (3) SP

Voice and diction fundamentals, used to develop vocal resonance, projection and articulation, as well as the natural connection of voice to action playing. Prerequisites: Theatre 1513.

2131 Theatrical Choreography: Various styles (1) F, SP

A practical class for developing the performer's technique in various forms of dance for the musical theatre.

2143 Movement for the Stage (3) SP

Theory and application of movement, combat techniques, the Alexander technique, the elements of a physical regimen in order to develop physical coordination, flexibility, strength, spontaneity and awareness of the body in presentational space. Prerequisite: Theatre 1513.

2153 Intermediate Acting (3) F

An application of the Meisner approach to acting, toward producing a scene/character study based on a modern American play. Prerequisite: Theatre 1513.

2163 Drafting for the Theatre (3) SP

Offered even-numbered years

Introduces technical drafting from basics through advanced practices in theatre including ground plans, sections, elevations, scaling, etc. Prerequisite: Theatre 2453.

2213 Rendering Media (3) SP

Offered odd-numbered years

Introduces design students to multiple software packages that create, edit, manipulate, animate and present visual design work.

2223 Playwriting (3) SP Offered odd-numbered years

This course is designed to encourage and nurture Christian playwrights. It will introduce students to playwriting terms and strategies, while applying the process of defining and analyzing the dramatic elements in a play script. By the end of the course, students will write a one-act play.

- 2233 Theatre for Young Audiences (3) SP**
Offered odd-numbered years
 Students will learn about ways of organizing a theatre program and its productions. It will also address issues of concern, such as age-appropriateness, choices of theatre seasons, grant money, and gender-blind and color-blind casting, as well as many others.
- 2243 Theatre in New York (3) W**
 This trip will expose theatre majors and minors to New York Theatre. They will view Broadway and off-Broadway productions and reflect on their experiences.
- 2253 Stage Combat (3) F**
Offered even-numbered years
 This course will teach students how to use safe and effective stage fighting techniques.
- 2453 Introduction to Technical Theatre (3) F, SP**
 Analyzes technical problems of production, including construction, scene design and lighting.
- 3013 Makeup for the Stage (3) SP**
 Practical application of all processes and types of stage makeup. Theatre majors only.
- 3023 Fundamentals of Design (3) F**
 The theory of scene design and its relation to the director, actor and other elements of production. This course may satisfy the SALT Tier II requirement.
- 3033 Theatre Management (3) SP**
Offered odd-numbered years
 Familiarizes students with the fundamentals of running a professional or educational theatrical program (administration and budgeting, grant writing, season selection, box office, house management and marketing) as well as the practical and theoretical aspects of stage management for theatrical productions.
- 3043 Improvisational Acting (3) F**
 Improvisational techniques explore the inner sources of spontaneous creation by exercising commitment and creative freedom in each moment of performance. Students will study improvisational theory and enact performance sessions designed to build spontaneous awareness.
- 3053 Costume Design (3) F**
Offered even-numbered years
 Costume designing from a production approach through design theory, figure drawing and a study of fabric. Theatre majors only or consent of instructor. Prerequisite: Theatre 3023.
- 3063 Lighting Design (3) F**
Offered odd-numbered years
 Teaches students the concepts of lighting design and lighting technology. Students will learn how to implement communication, technology, organization and creativity in the lighting industry.
- 3073 Scene Design (3) F**
Offered even-numbered years
 This course will allow students to develop drafting, rendering, painting, model-making and communication skills. Students will study historical, as well as contemporary, design techniques. Prerequisites: Theatre 2453, 3023.



- 3083 Musical Theatre History (3) SU**
Offered odd-numbered years
 An online course involving watching musicals and reading about their history, this class will teach students about the evolution of the American musical.
- 3093 Dramaturgy (3) F**
Offered on demand
 This course defines the role of dramaturgy as literary advisor in the process of producing plays. Various methods of research into the historical, cultural, and literary background of a play will be discussed and applied.
- 3403 Methods of Teaching Theatre (3)**
Offered on demand
 This course equips the theatre education major with an introduction to curriculum development and classroom activities to teach drama classes in high school or junior high settings. Field placement opportunities.
- 3413 Creative Dramatics (3) SP**
Offered even-numbered years
 An overview of children's theatre: understanding the literature, acting techniques, design concepts, and the production presentation. Field placement opportunities. This course may satisfy the SALT Tier II requirement.
- 3433 History of Theatre I (3) F**
Offered even-numbered years
 Theatre history from its Greek origins to 18th century European practice. Prerequisite: Theatre 1533.
- 3443 History of Theatre II (3) F**
Offered odd-numbered years
 Theatre history from 19th century romanticism to modern theory and practice. Prerequisite: Theatre 1533.
- 345V Theatre Internship (1-6) SU**
 Students involved in the International Program in London will apply for internships in the area of theatre, consisting of eight weeks, approximately 15 hours per week. Other opportunities for theatre internships may be approved by the department chair as they arise. Prerequisites: Theatre 2423 or permission of the department chair.

- 3491 Theatre Workshop: Practicum (1) F, SP**
A practical course in technical aspects of dramatic production. The course may be repeated each semester for credit up to 8 hours.
- 4013 Advanced Acting (3) SP**
Offered even-numbered years
This course focuses on Shakespeare and is designed to help actors develop their approach to Shakespeare's plays. Emphasis is placed on the mechanics of analyzing, interpreting, and internalizing Shakespeare's texts with the end goal of bringing them to full emotional and creative life. Students also study Shakespeare's canon and place as a historical figure. For theatre majors only. Prerequisites: Theatre 1513, 2153.
- 4023 Advanced Directing (3) SP**
Offered odd-numbered years
Principles of directing various styles and periods focusing on the ability of the director to bring a creative viewpoint to bear on the work. Requires student-directed scenes with lab. Laboratory is graded and credited with course. For theatre majors only. Prerequisite: Theatre 2113.
- 4033 Period Styles (3) SP**
Offered odd-numbered years
This course introduces an approach to performing in a range of historic works through reorganization of basic acting methods. It will familiarize students with classical dramatic literature. It will also teach them how to use textual clues to understand character development, while applying various acting styles in performance. Through their study of period styles and acting, students will also find the correlation between faith and art. Prerequisites: Theatre 1513, 2153.
- 4043 Musical Theatre Performance Workshop (3) SP**
Offered even-numbered years
This course will allow students to explore all aspects of musical theatre performance. Students will work with musical theatre productions for the 18th-20th centuries. Students will also be taught the singing, acting and technical aspects of musical theatre.
- 4102 Senior Seminar I (2) F**
This course is designed to assist students in making the transition from college to the "real world." Through the development and understanding of creating resumes, auditioning and creating professional goals, students will be prepared to enter the professional world with confidence. Prerequisites: senior standing and approval of the instructor.
- 4112 Senior Seminar II (2) SP**
This course is designed to assist students in making the transition from college to the "real world." Through the development and understanding of creating resumes, auditioning and creating professional goals, students will be prepared to enter the professional world with confidence. Prerequisites: senior standing and the approval of the instructor.
- 4nnV Special Topics (1-6) F, SP**
Various topics in dramatic literature and performance. (Examples: advanced scene design, advanced playwriting, etc.) Requires consent of the instructor.
- Film and Creative Media (FICM)**
- 1603 Screenwriting (3)**
This course provides students with the tools to understand basic cinematic story structure, the creative vision to conceptualize their own story, the understanding of what it takes to complete a screenplay that is influenced by Christian values and a working knowledge of the film industry. Prerequisite: TH 1533.
- 1703 Film Production Workshop (3)**
A course focusing on beginning film production where skills in the five disciplines—film producing, directing, cinematography, editing, sound recording, sound editing, and sound design—are all developed. Students learn to work in collaborative teams in multiple areas to fulfill a director's vision for a film. Prerequisite: TH 1533.
- 1803 Theatre Workshop: Practicum (1) F, SP**
This course teaches the craft of film directing through analysis of the work of classic and contemporary directors. The class also investigates the art and language of filmmaking through these topics: framing and composition, camera angles, camera movement, blocking of actors, visualizing action, creating a sequence, script breakdown, and techniques for establishing mood, character, and conflict. By the end of class students will create a short film of their own. There is a required lab. Prerequisite: TH 1533.
- 3xnV Special Topics (3)**
Topics include producing in the digital age and acting for film.



School of Humanities

Department of English & Modern Languages

Kimberly C. Reed, *Professor and Academic Chair*
Dana Chamblee Carpenter, *Associate Professor*
Linda M. Garner, *Professor*
Sonya Green, *Assistant Professor*
Jan Harris, *Assistant Professor*
Matthew G. Hearn, *Professor*

Kelly I. Kidder, *Associate Professor*
Charles H. McVey, Jr., *Professor*
Theodore H. Parks, *Associate Professor*
T. Stephen Prewitt, *Assistant Professor*
Valery W. Prill, *Professor*
Stacia Watkins, *Assistant Professor*

The mission of the Department of English & Modern Languages is to allow undergraduate students to explore the complex and compelling relationships among language, literature and culture. With majors in English, French, German, and Spanish, and teaching certifications available for all four majors, our curriculum is designed to help students develop the skills necessary to negotiate various linguistic, social and cultural contexts effectively.

Distinctives of the English & Modern Languages Department

Since ancient times, Western education has featured grammar, rhetoric and logic, three of the seven historic liberal arts. With a strong community of scholars whose interest in language, literature and culture permeates all aspects of their lives, the Department of English & Modern Languages is central to liberal arts education at Lipscomb.

Students majoring in English at Lipscomb can select from three different degree tracks: the literature track, for those interested in advanced literary studies; the teaching track, for those seeking licensure and certification in secondary education; and the writing track, for those interested in careers as professional, technical or creative writers. All three tracks provide strong foundations for students who will pursue post-graduate training in fields such as law, medicine, education, business, etc.

All English majors at Lipscomb are required to have at least one internship or practicum experience in order to help them develop marketable workplace skills and professional contacts before they graduate. Our students have enjoyed a wide variety of placements, including positions with Nashville publishers, newspapers, magazines, professional sports teams, television studios, software firms, non-profits, state government and the entertainment industry.

Modern language majors are required to have an intensive language experience, which may be fulfilled in a number of ways: through a language-immersion program such as those offered through CCCU or the Mid-Continent Consortium, or through language study in Lipscomb's Global Learning program.

The department hosts the university's Writing Studio, through which students across campus can receive assistance with their writing from trained peer tutors, many of whom are English or modern language majors. Tutoring experience provides excellent hands-on experience for future teachers and helps our graduates compete successfully for funding when they apply to graduate and professional programs.

Students have many opportunities to publish their writing while still enrolled as undergraduates. Our majors have presented work in a wide variety of venues and competitions, including the National Undergraduate Literature Conference, the Southern Literary Festival, The Nashville Scene, The City Paper, the Society for Professional Journalism Competition, the Southeastern Writing Center Association Conference and the Lipscomb Student Scholar Symposium.

The department also hosts a chapter of Sigma Tau Delta, the international honor society for English studies. Students with distinguished records in the department may be invited to join the society during their junior or senior years.

Lipscomb is the first American university to adopt web-based usage of Auralog's award-winning Tell Me More software for its French, German, Spanish and English Language learners. The department is the only one in middle Tennessee to offer Pre-K-12 teaching certification in French, German and Spanish, and also offers an endorsement in English as a Second Language (ESL).

With a variety of activities and programs to enrich the college experience, the department offers our community the opportunity to hear a diverse range of nationally recognized writers. The Landiss Lectures, for example, bring widely renowned writers to campus each year; past guest speakers have included the Pulitzer prize-winning poet Natasha Trethewey, novelist Ann Patchett, distinguished historians Robert K. Massie and H.W. Brands, and noted biographer, poet and novelist Jay Parini.

Study Abroad Opportunities

The Office of Global Learning offers a variety of opportunities for students interested in learning abroad. Lipscomb's Global Scholar programs provide language and cultural studies for students who spend a semester abroad. Through course work, service learning, and field trips, students engage with their local community. Destinations include Santiago, Chile; London, England; and Vienna, Austria.

Through our memberships in the Mid-Continent Consortium and the Council of Christian Colleges and Universities (CCCU), students may participate in language-immersion programs around the world, such as intensive French summer programs in Angers, France, and Chicoutimi, Quebec, or intensive Spanish programs in Toledo, Spain, or Costa Rica.

Additionally, modern language majors may enroll in accredited programs in countries where French, German, or Spanish are native or official languages. Students should consult with the department chair or another modern language professor as well as the registrar before enrolling in order to determine if a given program's course of study will transfer to Lipscomb for academic credit.

Career Opportunities

Because the English curriculum produces students with excellent analytical and communications skills, Lipscomb's English graduates have pursued careers in a wide range of professions, including:

- Law
- Professional writing
- Editing/publishing
- Journalism
- Public relations
- Medicine
- High school teaching
- Library science
- College teaching

Many modern language majors enter careers in high school teaching or continue to graduate school to prepare to teach at the college level. However, there are other interesting endeavors in which a modern language major would be beneficial, such as the following:

- International business, commerce and industry
- Airline or travel industries
- Journalism, advertising and other media forms for the international markets
- Positions with government agencies and political organizations for domestic and overseas service
- Mission work in foreign countries
- Interpreting
- Translating

Many students find that adding modern language as a second major will present special advantages for job placement and increased opportunities for career advancement.



Requirements for Majors

English Major- Literature Track

B.A. degree program only

Total hours required— 45

Specific courses required—

English 2903, 3013, 36n3, 3713, 3723, 3733, 4203, 4992

At least one hour of English 300V or 400V

Three hours of English 3023 or 3033

Six hours of a sophomore-level sequence (EN 2113/2123, or EN 2133/2143, or EN 2153/2163)

Six hours of English 46n3, 47n3, 48n3, or 49n3

Six elective hours of English courses numbered 2000 or above

English Major- Writing Track

B.A. degree program only

Total hours required— 45

Specific courses required—

English 2903, 3013, 3733, and 4992

At least one hour of English 300V or 400V

Three hours of English 3023 or 3033

Twelve hours from English 36n3, 3143, 31n3,

Information Technology 2043, 2053, or other courses approved by department chair

Three hours of English 3713 or 3723

Three hours of a sophomore-level literature survey

Six hours of English 46n3, 47n3, 48n3, or 49n3

Six elective hours of English courses numbered 2000 or above

English Teaching Major

B.A. degree only

Candidates for the English teaching major must formally apply for admission to the teacher education program while they are enrolled in Education 2313, Schooling in America and must be formally recommended by the English department. Minimum requirements for full recommendation are as follows:

- An overall GPA of 2.75 or better
- A cumulative GPA in English of 3.0 or better
- Recommendations from at least two Lipscomb English instructors and one other Lipscomb instructor
- A completed application (including forms, interview and writing sample — see academic chair for more specific information)
- Fulfillment of all general requirements for admission to the teacher education program.

To remain in the program, students must maintain an overall GPA of 2.75 or better, maintain a cumulative GPA in English of 3.0 or better and continue to be recommended by all Lipscomb English instructors who teach them. Students should contact the academic chair of the English department for specific application forms and procedures.

Total hours required in English - 39

Total hours required for graduation - 126

Students in this track are certified at the undergraduate level and will be eligible to teach at the completion of the program.

In addition to the requirements listed under “General Education Required of Secondary and K-12 Teacher Education Students” and “Core Professional Education Courses for Secondary and Teacher Education Programs” the following specific courses are required:

- Specialized professional education courses: English 4053 (counts as a Core Professional Education Course)
- Subject matter specialization courses
 - EN 2903, 300V, 3013, 3713 or 3723, 3733, 46n3, 4992
 - EN 3053
 - EN 2153, 2163, and six elective hours of English courses numbered 2000 or above, excluding 300V and 400V
 - EN 3023

English teaching majors have a built-in minor in education.

English teaching majors are strongly encouraged to complete English 3033 and 4203.

Requirements for Minor

English Minor

Total hours required— 18

Specific courses required—

Three hours from English 2113, 2123, 2133, 2143, 2153, 2163, or 219V
Fifteen additional hours of English courses numbered 2000 or above

Film Studies Minor

Total hours required— 15

Specific courses required—

Three hours from EN 219V: Film as Literature or LULT 2xn3: Literature and Film
Three hours from EN 319V: Elective in Special Topics: Film or EN 419V: Seminar in Special Topics: Film
Nine additional hours from these courses:
EN 219V: Introduction to Creative Writing
EN 319V (film topics only)
EN 419V (film topics only)
EN 3000 (film-related assignment only)
EN 36n3
EN 4203
SN 4a4v
TH 1533
CO 4104

Course Descriptions

English (EN)

0110 Developmental Seminar (3 non-credit hours) F, SP

For Adult Degree students only, based on a placement test. Developmental Seminar is intended to help students develop the university-level competencies in reading and writing that are prerequisite to the standard composition sequence. To that end, this course provides an intensive review of English grammar, mechanics and usage; an introduction to critical thinking; and frequent practice in written composition, including expository essays. Students must pass this course with a grade of “C” or better before they can enroll in English 1113. This is a developmental non-credit course. See pages concerning developmental non-credit courses at the front of the catalog.

1113 Composition and Reading I (3) F, SP

For Adult Degree students only. A basic introduction to university-level reading, writing and research. This course promotes competence in grammar, mechanics and usage and emphasizes the development of critical thinking and writing skills through assigned readings and written compositions. Required readings include both literary and non-literary texts; required writing includes frequent expository and argumentative essays, at least one of them documented. Prerequisite for English 1113: satisfactory performance on placement exam, or C or above in EN 0110. Students must complete English 1113 with a grade of “C” or above before enrolling in English 1313.

1313 University Writing (3) F, SP, SU

A first-year composition course that develops students’ ability to read and think critically, to employ discussion and writing as a means of exploring and refining ideas, and to express those ideas in effective prose. The course is designed to help students develop transferable skills of analysis and argumentation, applicable to a variety of disciplines. Students will produce at least four projects totaling 4000 words of formal writing. At least one of the essays must be an evidence-based argumentative essay. The course will emphasize successive stages of the writing process, including prewriting, drafting, and revision, and will provide feedback from classmates and the instructor.

This course meets the standards for Foundations general education credit. Prerequisite for Adult Degree students: C or above in EN 1113. Prerequisite for traditional students: satisfactory achievement on a placement essay.

2113 Survey of English Literature I (3) F, SP

A study of English literature from the beginnings through the Restoration and the 18th Century with an emphasis on literary history. Prerequisite: English 1313.

2123 Survey of English Literature II (3) F, SP

A study of English literature from the Romantic Period to the present with an emphasis on literary history. Prerequisite: English 1313.

2133 Survey of American Literature I (3) F, SP

A study of American literature from colonial times through the Age of Romanticism with an emphasis on literary history. Prerequisite: English 1313.

2143 Survey of American Literature II (3) F, SP, SU

A study of American literature from the Age of Realism to the present with an emphasis on literary history. Prerequisite: English 1313.

2153 Survey of World Literature I (3) F, SP, SU

A study of translated masterpieces of classical and European literature that have significantly influenced the development of Western culture, particularly English and American literature. Much attention is given to the classical tradition in Homer, Virgil, Dante and classical mythology. Prerequisite: English 1313.

2163 Survey of World Literature II (3) F, SP

A study of translated masterpieces of world literature since the 17th century that have significantly influenced the development of Western culture, particularly English and American literature. Prerequisite: English 1313.

219V Studies in Literature (3)

Offered on demand

A study of a special topic in literature selected by the instructor. This course meets the general education sophomore literature requirement. Prerequisite: English 1313.

2903 Introduction to Literary Studies (3) SP

An introduction to the discipline of English as a profession, focusing on the historical development of English studies, the foundational knowledge and skills expected of English majors (including modes of writing in the discipline, techniques of disciplinary research and methods of interpretation and criticism), and vocational preparation. Assessment will include the preparation of a professional portfolio. Required of all English majors. Pre- or corequisite: English 21n3.

300V Practicum (1-3)

Offered on demand

A writing-related practicum for English majors, directly supervised by English department faculty. Offered on demand. Open to sophomores, juniors and seniors. Assessment includes course portfolio. May be taken for SALT credit with instructor permission. Repeatable for up to 6 hours credit. Prerequisite: English 3013.

3013 Advanced Composition and Rhetoric (3) F, SP

A study of rhetorical strategies used to write about both formal and informal topics. Entails the analysis of

prose styles, stresses organization and presentation of information and ideas, the presentation of a case or a formal argument, and adaptation of a stance to fit the particular audience. Prerequisite: English 1313. Required of all English majors. This course may satisfy the SALT Tier II requirement.

3023 English Grammar (3) F*

An eclectic study that includes both a review of the traditional grammar and an introduction to some important concepts of structural and transformational grammar. Class discussion, assigned readings, and exercises aim at discovery of principles by which we generate and analyze the structures of standard English, with special attention to grammatical terminology that is especially useful for teachers and writers. More specifically, this study examines syntactic patterns and their transformations, form and function in the several word classes, and the relation of standard dialect and punctuation to grammatical concepts. Prerequisite: English 1313. Required of English teaching majors.

3033 History of the English Language (3) SP*

A study of the development of the English language as manifested in changes in its phonology, morphology, grammar and semantics, especially as these can be understood in relation to culture and to some fundamentals of linguistics. Although some attention is given to Indo-European correspondences, the emphasis is on developments from the Old English Period to the present, including American dialects. Prerequisites: English 21n3 and EN 3013.

3053 Literature for Young Adults (3) SP

This course provides experience with and theory of literary works, typically outside the classical/traditional canon, which are suitable for young adults. The course is required for English teaching majors but can be applied to a major or minor in English. The course does not meet the general education requirement of a sophomore literature course. Prerequisite: English 21n3. On occasion, some sections of this course may satisfy the SALT Tier II requirement.

31n3 Topics in Professional Writing (3)

Students will develop professional writing skills by designing and producing a wide range of documents. Topics selected by the instructor may include new writing technologies for professional communication and presentation, analyzing verbal and visual rhetoric of traditional and electronic texts, and evaluating document usability. Prerequisite: English 1313 with a grade of "B" or higher, or instructor permission.

3143 Technical Writing (3) SP

This course provides practice in technical writing and correspondence while examining technical writing principles and style. Students are guided in polishing a technical research project and report from their own academic disciplines. By permission of the instructor. Prerequisite: English 1313. This course may satisfy the SALT Tier II requirement.

36n3 Creative Writing (3) F, SP

A focused study of creative writing targeting a single genre; genres will vary upon demand. Students will write, constructively critique each other's work, and study the work of established writers in a workshop

setting. Students will also be introduced to the process of entering literary competitions, researching publication opportunities, and submitting work for publication. Repeatable for credit. Prerequisite: English 21n3 or permission of instructor.

- 3713 Fiction as Genre (3) F, SP**
An intensive study of the prose fiction genre in English and in English translation, emphasizing formal and critical analysis. Students will read novels and short stories by a range of established writers, both classics and contemporary; they may also be required to attend public readings, both on and off campus. Prerequisites: English 2903 and 3013.
- 3723 Poetry as Genre (3) SP**
An intensive introduction to poetry in English, especially the lyric, emphasizing formal and critical analysis. Students will read a wide range of poems by established poets, both classic and contemporary; they may also be required to attend public readings, both on and off campus. Prerequisites: English 2903 and 3013.
- 3733 Shakespeare (3) F**
An in-depth study of William Shakespeare as a major literary figure. Students will study Shakespeare's plays and poetry as well as his historical context and cultural significance. Required for all English majors. Prerequisite: English 21n3.
- 400V Internship for English Majors (1-3) F, SP, SU**
Open to juniors and seniors who have taken internship opportunities that meet Career Development criteria as well as departmental criteria. Repeatable for up to six hours' credit. Prerequisite: English 3013. This course may satisfy the SALT Tier II requirement.
- 4053 Methods of Teaching English (3)
Offered on demand**
Through study and observation, this course provides the prospective teacher with information about and opportunities for research into methods of teaching literature, grammar and composition in the secondary classroom. Practice in making lesson plans is provided. Students are encouraged, though not required, to take English 3053: Literature for Young Adults before enrolling in this course. If possible, this course should be taken the semester immediately before student teaching. Prerequisite: admission to English teaching program (see requirements under "English Teaching Major.") This course may satisfy the SALT Tier II requirement.
- 419V Special Topics (1, 2, 3)**
Permitting variable credit of one, two or three hours, this course is designed to further the study of and research into a special topic. Prerequisite is any English 21n3; others may apply - see academic chair. On occasion, some sections of this course may satisfy the SALT Tier II requirement.
- 4203 Literary Theory and Criticism (3) SP**
The course attempts to define and illustrate several of the principal approaches taken by critics in interpreting and evaluating literary works. Assignments include readings in influential critical texts from Plato to the present, with particular attention to major terms of criticism. Prerequisite: English 2903 or permission of instructor.
- 4513 Honors English (3)
Offered on demand**
A seminar course designed for English majors who have maintained a superior record. Emphasis is placed upon individual research. A long research essay is required. Prerequisites: see academic chair.
- 460V Independent Study in English (1, 2, 3)**
Offered according to individual need and interest, and permitting variable credit of one, two or three hours, this course is designed for students who have completed at least one upper-division English course and wish to propose a program of independent study which would deepen or extend their knowledge of literature, written communication, the English language or the teaching of English. The proposed program of study must be approved by the academic chair. Prerequisites: English 21n3, English 2903, 3013, and 37n3.
- 46n3 Seminar in American Literature (3) F, SP**
An advanced undergraduate seminar focusing intensively on a topic, theme, period, group, genre, etc., from American literature, selected by the instructor. Students will deliver class presentations, perform significant research and produce a substantial research project. Required of all English majors. Prerequisites: English 21n3, 2903, 3013, and 37n3.
- 47n3 Seminar in British Literature (3)**
An advanced undergraduate seminar focusing intensively on a topic, theme, period, group, genre, etc., from British literature, selected by the instructor. Students will deliver class presentations, perform significant research and produce a substantial research project. Prerequisites: English 21n3, 2903, 3013, and 37n3.
- 480V English Travel (1, 2, 3) SU**
Group travel with Lipscomb English instructor. Research and writing are required. Prerequisite: see academic chair.
- 48n3 Seminar in World Literature (3)**
An advanced undergraduate seminar focusing intensively on a topic, theme, period, group, genre, etc., from world literature (in translation), selected by the instructor. Students will deliver class presentations, perform significant research, and produce a substantial research project. Prerequisites: English 21n3, 2903, 3013, and 37n3.
- 4992 Senior English Capstone (2) F, SP**
An advanced seminar designed to help students polish their disciplinary skills as researchers, writers, readers, and presenters on topics selected by the instructor. Students in this course must submit their English Major Portfolio and earn a score of 5 or better to receive credit for this course. Required of all English majors; must be taken during the student's last regular semester of course work.
- 49n3 Seminar in Special Topics (3)**
An advanced undergraduate seminar focusing intensively on a topic, theme, period, group, genre, etc., that crosses traditional boundaries between subject areas. Students will deliver class presentations, perform significant research and produce a substantial research project. Prerequisites: English 21n3, 2903, 3013, and 37n3.

Requirements for Modern Language Majors

Departmental Admission Requirements

All new students (freshmen and transfers) who have studied a foreign language in high school or at another college or university **must** take a short placement assessment **before** attending the preregistration counseling session with the academic advisor or attempting to register for any courses in that same language. This assessment is short (20-30 minutes), convenient and easy to access online (softstudy.com/store/EXAM.cfm). After taking the placement exam, students should email their score to the department chair (kimberly.reed@lipscomb.edu) for placement information.

Summer Intensive Courses

The year-long elementary and intermediate language sequences are often offered during the full summer session. Students should realize that the pace of such an intensive course is rigorous and will require at least as much if not more time than a full load taken during the fall or spring semesters. It is recommended that students not take any additional course work nor become involved in many outside activities during such an intensive course (i.e., one should not plan to work more than 12-15 hours per week).

All students intending to take an intensive language program must complete the placement assessment and consult with the academic chair **prior** to having their schedules for the summer session approved by their advisors.

Requirements for Majors

French Major

B.A. degree program only

Total hours required— 29

Specific courses required—

FR 2114, 2124

Three hours selected from: FR 3133 or 3153

Three hours selected from: FR 4113 or 4123

Fifteen hours selected from the following:

FR 3113, 3123, 3143, 333V, 401V, 452V, 4XNV

FL 4514

Students majoring in French are encouraged to take courses in European history. Students are also encouraged to take another modern language.

Note: Before registering for any French class, students with previous study in French (high school or college) must take the department's computerized placement test. This test, which takes approximately 20 to 30 minutes, will determine the proper level for which the student should register.

French Teaching Major

B.A. degree program only

I. General education required of secondary and K-12 teacher education students

II. Professional education

A. Core professional education

B. Specialized professional education
FL 4514

III. Subject matter specialization

FR 1114, 1124, 2114, 2124

FR 3113 or 3153 (both are recommended)

FR 4113 and 4123

FR 452V (3 hours) or 4C0V

Nine hours selected from the following:

FR 321V, 4xnV, 3113, 3123 (strongly recommended)

Note: Foreign language teaching majors have a built-in minor.

German Major

B.A. degree program only

Total hours required— 29

Specific courses required—

German 2114, 2124

Three hours selected from: GE 3133 or 4xnV

Three hours selected from: GE 4113 or 4123

Fifteen hours selected from the following:

GE 3113, 3123, 3143, 333V, 401V, 452V

Students majoring in German are encouraged to take courses in European history. Students are also encouraged to take another modern language.

Note: Before registering for any German class, students with previous study in French (high school or college) must take the department's computerized placement test. This test, which takes approximately 20 to 30 minutes, will determine the proper level for which the student should register.

German Teaching Major

B.A. degree program only

I. General education required of secondary and K-12 teacher education students

II. Professional education

A. Core professional education

B. Specialized professional education

FL 4514

III. Subject matter specialization

German 1114, 1124, 2114, 2124, 3113, 3123, 3133,

4113, 4123, 452V (usually for 3 hours) or 4C0V,

and one upper-division elective

Note: Foreign language teaching majors have a built-in minor.

Spanish Major

B.A. degree program only

Total hours required— 29

Specific courses required—

SN 2114, 2124, 3413

Three hours selected from: SN 4413 or 4423

Fifteen hours selected from the following:

SN 3143, 333V, 3423, 3453, 401V, 4413, 4423,

452V, 4XNV

Students majoring in Spanish are encouraged to take courses in European as well as Latin American history. Students are also encouraged to take another foreign language (1114, 1124 sequence).

Students majoring in Spanish are encouraged to take courses in European history. Students are also encouraged to take another modern language.

Note: Before registering for any Spanish class, students with previous study in French (high school or college) must take the department's computerized placement test. This test, which takes approximately 20 to 30 minutes, will determine the proper level for which the student should register.

Spanish Teaching Major

B.A. degree program only

I. General education required of secondary and K-12 teacher education students

II. Professional education

A. Core professional education

B. Specialized professional education
FL 4514

III. Subject matter specialization

Spanish 1114, 1124, 2114, 2124, 3413,
3423, 3433, 3453, 4413, 4423, 452V (usually
for 3 hours) or 4C0V

Note: Foreign language teaching majors have a built-in minor.

Requirements for Minors

Foreign Language Distributive Minor

(Available to Foreign Language Majors only)

Total hours required— 16

If a student majors in French, German or Spanish, he/she may earn a distributive minor by taking the first year sequence of any two of the other languages offered in the department (Chinese 1114 and 1124; French 1114 and 1124; German 1114 and 1124; Russian 1114 and 1124; Spanish 1114 and 1124).

French Minor

Total hours required— 19

Specific courses required—

FR 1114 and 1124; 2114 and 2124; 3nn3 or 4nn3

German Minor

Total hours required— 19

Specific courses required—

GE 1114 and 1124; 2114 and 2124; 3nn3 or 4nn3

International Studies Minor

Total hours required— 17

Specific courses required—

Business Administration 3603

One of the following blocks:

French 2114, 2124

German 2114, 2124

Spanish 2114, 2124

Six hours selected from:

History 3153, 3323, 4053, 4103, 4133, 4143

(occasional special topics courses may also fulfill this requirement; please check with the chair of the Department of History, Politics and Philosophy in such cases)

Political Science 3033, 3133, 3153, 4053, 4133, 4213, 4233

Note: This is an interdisciplinary program of the departments of business administration; foreign languages; and history, politics and philosophy.

Spanish Minor

Total hours required— 19

Specific courses required—

SN 1114 and 1124; 2114 and 2124; 3nn3 or 4nn3

Course Descriptions

Chinese (CHIN)

1114, 1124 Elementary Chinese I, II (4, 4) 1114-F; 1124-SP Offered on demand

An introduction to the Chinese language including pronunciation, vocabulary, grammar, reading, writing, conversation and cultures of the Chinese-speaking world. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. Chinese 1114 and 1124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Note: Only one year of Chinese is offered; this is offered only upon sufficient demand and is also dependent on scheduling availability. Prerequisite to Chinese 1124: Chinese 1114 or equivalent with a grade of "C" or higher. Lab fee: \$20.

Foreign Language (FL)

1xnV

Special Topics/Courses (1-5) F, SP, SU Offered on demand

Selected topics or special courses in language, literature, and culture as well as linguistics not available through the three language major programs (French, German, Spanish). Usually a combination of lecture, skill-building sessions, and laboratory or field experiences. Offered upon sufficient demand and subject to staff availability. Does not fulfill the B.A. foreign language requirement.

4514

Introduction to Teaching Foreign and Second Languages: Theory and Practice (4) F, SU*

Study of methods and materials for teaching foreign and second languages at all levels. Course is designed for foreign language teaching majors (French, German, Spanish), but does not count toward the 28-hour content major. To be taken prior to student teaching. Prerequisite: permission of the instructor (usually involves a background of three years of university-level foreign language or its equivalent).

French (FR)

101V, 102V **French for Reading Knowledge I, II (1-3)**

Offered on demand

A two-semester sequence introducing grammar including extensive practice in content reading and foreign language reading techniques. The primary skill developed will be a reading knowledge of the language although oral practice will be used to enhance the speed and quality of learning. Available to 1) undergraduate and non-traditional students only as an elective on a credit basis (or as an audit) and to 2) graduate students as an audit (or as undergraduate credit; no graduate credit available). This course does not fulfill the undergraduate B.A. language requirement. Offered on demand.

1114, 1124 **Elementary French I, II (4, 4) 1114-F; 1124-SP; 1114 and 1124-SU**

An introduction to the French language including pronunciation, vocabulary, grammar, reading, writing, conversation and cultures of the Francophone world. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. French 1114 and 1124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to French 1124: French 1114 or equivalent with a grade of "C" or higher. Lab fee: \$20.

2114, 2124 **Intermediate French I, II (4, 4) 2114-F; 2124-SP**

A continuation of the development of French language and culture skills, including an introduction to French civilization and literature. Three hours of classwork per week supplemented by corequisite weekly interactive culture lab session directed by the course instructor. French 2114 and 2124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to French 2124: French 2114 or equivalent with a grade of "C" or higher. Lab fee: \$20.

3113 **Advanced Grammar and Composition (3) F***

Study of problems in grammar and writing. May be repeated for credit with prior approval. Prerequisite: French 2114 and French 2124. Lab Fee: \$20.

3123 **Advanced Conversation and Phonetics (3) SP***

Further training in the use of contemporary French in practical situations with emphasis on phonetic accuracy and conversational fluency. Prerequisite: French 2114 and French 2124. May be repeated for credit with prior approval. Lab Fee: \$20.

3133 **French Civilization (3) F***

A study of French culture as reflected in geography, history, art, architecture and music from earliest times through the nineteenth century. Prerequisite: French 2114 and French 2124.

3143

Commercial French (3)

Offered on demand

Introduction to vocabulary, syntax, and composition, both oral and written, needed to prepare students to work in a French-speaking business. Emphasis on practical business contact both written (business correspondence) and oral (directing business trips, meetings, marketing arrangements, import/export development). Prerequisite: French 2114 and French 2124. Lab Fee: \$20.

3153

French Culture (3) SP*

A study of contemporary life in France and French-speaking countries with emphasis on current events in cultural, socio-political, and economic areas. This involves a broadening of multicultural awareness through a comparison of American and French cultures. Prerequisite: French 2114 and French 2124 or departmental permission.

321V

Intermediate Practicum in Foreign Language Teaching (1-3) F, SP

Upper-division language students may be selected to participate in teaching foreign language at the elementary school level. Students must confer with the chairman of the department in order to apply for this practicum.

333V

Internship in Francophone Studies

This course is individually contracted through the department and offers the foreign language major the opportunity to gain a variety of on-site experiences in a work setting. Preliminary counseling, supervision during the activity and subsequent evaluation will be provided by the professor to whom the internship is assigned. Evaluation will be based on assessments by the Lipscomb professor and the workplace supervisor, on regular progress reports, and on a summary report at the end of the semester. The application process for this course must be completed the semester before the internship is to take place and prior to registration for the internship. Prerequisite: French 2114 and French 2124 and permission of both the major professor of French and the academic chair.

401V

Independent Studies (1-5) F, SP, SU

Courses for students, mainly majors, who are capable of doing superior independent reading and research on various topics selected from French language and literature (including French Literature in English and the French Bible). A total of six hours is permitted toward the major.

4113

Survey of French Literature I (3) SP*

French literature to 1800. Prerequisite: French 2114 and French 2124. Satisfies the general education humanities literature requirement.

4123

Survey of French Literature II (3) F*

French literature since 1800. Prerequisite: French 2114 and French 2124. Satisfies the general education humanities literature requirement.

452V	Travel in French-Speaking Countries (1-5) F, SP, SU Study tours, usually offered in the summer session, providing on-site investigation of historical and contemporary culture with suitable preparation and follow-up work. A total of five hours is permitted toward the major. Instructor's contracted approval required.	3113	Advanced Grammar and Composition (3) SP Study of problems in grammar and writing. May be repeated for credit with prior approval. Prerequisite: German 2114 and German 2124. Lab Fee: \$20.
4xnV	Special Topics (1-5) Offered on demand A variety of topics will be made available to the student. Topics will be chosen by the faculty and may include suggestions from advanced students. The course will provide an in-depth study of a particular topic which is normally not covered or is only briefly surveyed in the regular slate of courses. Offered with sufficient demand and subject to staff availability.	3123	Advanced Conversation and Phonetics (3) F Further training in the use of contemporary German in practical situations with emphasis on phonetic accuracy and conversational fluency. Prerequisite: German 2114 and German 2124. May be repeated for credit with prior approval. Lab Fee: \$20.
		3133	German Historical Culture (3) F* A study of Germanic and German culture as reflected in mythology, literature, geography, history, art, architecture and music from the earliest times down to the beginning of the modern period. A literary emphasis will concern texts from the Germanic, Old High German, Middle High German, and Early New High German periods as well as the Barock and Enlightenment movements. Prerequisite: German 2114 and German 2124. Satisfies the general education humanities literature requirement.
German (GE)			
101V, 102V	German for Reading Knowledge I, II (1-3) Offered on demand A two-semester sequence introducing grammar including extensive practice in content reading and foreign language reading techniques. The primary skill developed will be a reading knowledge of the language although oral practice will be used to enhance the speed and quality of learning. Available to undergraduate and non-traditional students only as an elective on a credit basis (or as an audit) and to graduate students as an audit (or as undergraduate credit; no graduate credit available). This course does not fulfill the undergraduate B.A. language requirement.	3143	Commercial German (3) SP* Introduction to vocabulary, syntax, and composition, both oral and written, needed to prepare students to work in German-speaking business situations. Prerequisite: German 2114 and German 2124. Lab Fee: \$20.
1114, 1124	Elementary German I, II (4, 4) 1114-F; 1124-SP; 1114 and 1124-SU An introduction to the German language including pronunciation, vocabulary, grammar, reading, writing, conversation and cultures of the Germanic world. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. German 1114 and 1124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to German 1124: German 1114 or equivalent with a grade of "C" or higher. Lab fee: \$20.	321V	Intermediate Practicum in Foreign Language Teaching (1-3) F, SP Upper-division language students may be selected to participate in teaching foreign language at the elementary school level. Students must confer with the chairman of the department in order to apply for this practicum.
2114, 2124	Intermediate German I, II (4, 4) 2114-F; 2124-SP A continuation of the development of German language and culture skills, including an introduction to Germanic civilization and literature. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. German 2114 and 2124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to German 2124: German 2114 or equivalent with a grade of "C" or higher. Lab fee: \$20.	333V	Internship in Germanistik This course is individually contracted through the department and offers the foreign language major the opportunity to gain a variety of on-site experiences in a work setting. Preliminary counseling, supervision during the activity and subsequent evaluation will be provided by the professor to whom the internship is assigned. Evaluation will be based on assessments by the Lipscomb professor and the workplace supervisor, on regular progress reports, and on a summary report at the end of the semester. The application process for this course must be completed the semester before the internship is to take place and prior to registration for the internship. Prerequisite: German 2114 and German 2124 and permission of both the major professor of German and the academic chair.
		401V	Independent Studies (1-5) F, SP, SU Courses for students, mainly majors, who are capable of doing superior independent reading and research on various topics selected from German language, literature and culture (including German Literature in English, Theological German, Scientific German, Old English, the Romantic Fairy Tale). A total of six hours is permitted toward the major.

- 4113 Survey of German Literature I (3) F***
 German literature from 1700 to 1840. Literary and cultural survey from the Enlightenment period through 19th-century Romanticism (including Storm and Stress, Classicism, Romanticism, and das Junge Deutschland). Prerequisite: German 2114 and German 2124. Satisfies the general education humanities literature requirement.
- 4123 Survey of German Literature II (3) SP***
 German literature since 1840. Survey of post-Romantic German literary movements (Realism, Naturalism) in the 19th century and primary literary figures in the 20th century (Hauptmann, Kafka, Mann, Hesse, Brecht, Boll, Grass) with emphasis on the Novelle of Poetic Realism and on the contemporary short story. Prerequisite: German 2114 and German 2124. Satisfies the general education humanities literature requirement.
- 452V Travel in German-Speaking Countries (1-5) F, SP, SU**
 Study tours, usually offered in the summer session, providing on-site investigation of historical and contemporary culture with suitable preparation and follow-up work. A total of five hours is permitted toward the major. Instructor's contracted approval required.
- 4xnV Special Topics (1-5) Offered on demand**
 A variety of topics will be made available to the student. Topics will be chosen by the faculty and may include suggestions from advanced students. The course will provide an in-depth study of a particular topic which is normally not covered or is only briefly surveyed in the regular slate of courses. Offered with sufficient demand and subject to staff availability.

Russian (RU)

- 101V, 102V Russian for Reading Knowledge I, II (1-3) Offered on demand**
 A two-semester sequence introducing grammar including extensive practice in content reading and foreign language reading techniques. The primary skill developed will be a reading knowledge of the language although oral practice will be used to enhance the speed and quality of learning. Available to 1) undergraduate and non-traditional students only as an elective on a credit basis (or as an audit) and to 2) graduate students as an audit (or as undergraduate credit; no graduate credit available). This course does not fulfill the undergraduate B.A. language requirement.
- 1114, 1124 Elementary Russian I, II (4, 4) 1114-F; 1124-SP; 1114 and 1124-SU Offered on demand**
 An introduction to the Russian language including pronunciation, vocabulary, grammar, reading, writing, conversation and cultures of the Russian-speaking world. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the

course instructor. Russian 1114 and 1124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Note: Only one year of Russian is offered; this is offered only upon sufficient demand and is also dependent on scheduling availability. Prerequisite to Russian 1124: Russian 1114 or equivalent with a grade of "C" or higher. Lab fee: \$20.

Spanish (SN)

- 101V, 102V Spanish for Reading Knowledge I, II (1-3) Offered on demand**
 A two-semester sequence introducing grammar including extensive practice in content reading and foreign language reading techniques. The primary skill developed will be a reading knowledge of the language although oral practice will be used to enhance the speed and quality of learning. Available to 1) undergraduate and non-traditional students only as an elective on a credit basis (or as an audit) and to 2) graduate students as an audit (or as undergraduate credit; no graduate credit available). This course does not fulfill the undergraduate B.A. language requirement.
- 1114, 1124 Elementary Spanish I, II (4, 4) 1114-F; 1124-SP; 1114 and 1124-SU**
 An introduction to the Spanish language including pronunciation, vocabulary, grammar, reading, writing, conversation and cultures of the Hispanic world. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. Spanish 1114 and 1124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to Spanish 1124: Spanish 1114 or equivalent with a grade of "C" or higher. Lab fee: \$20.
- 2114, 2124 Intermediate Spanish I, II (4, 4) 2114-F; 2124-SP; 2114 and 2124- SU**
 A continuation of the development of Spanish language and culture skills, including an introduction to Spanish civilization and the literature of Spain and Spanish America. Three hours of classwork per week supplemented by a corequisite weekly interactive culture lab session directed by the course instructor. Spanish 2114 and 2124 must be taken in conjunction with the required interactive culture lab which is an integral part of the learning and grading of the course. Prerequisite to Spanish 2124: Spanish 2114 or equivalent with a grade of "C" or higher. Lab fee: \$20
- 3143 Commercial Spanish (3) F, SP Offered on demand**
 Introduction to vocabulary, syntax, and composition, both oral and written, needed to prepare students to work in a Spanish-speaking business. Prerequisite: Spanish 2114 and Spanish 2124. Lab Fee: \$20.

- 321V Intermediate Practicum in Foreign Language Teaching (1-3) F, SP**
Upper-division language students may be selected to participate in teaching foreign language at the elementary school level. Students must confer with the chair of the department in order to apply for this practicum.
- 333V Internship in Hispanic Studies**
This course is individually contracted through the department and offers the foreign language major the opportunity to gain a variety of on-site experiences in a work setting. Preliminary counseling, supervision during the activity and subsequent evaluation will be provided by the professor to whom the internship is assigned. Evaluation will be based on assessments by the Lipscomb professor and the workplace supervisor, on regular progress reports, and on a summary report at the end of the semester. The application process for this course must be completed the semester before the internship is to take place and prior to registration for the internship. Prerequisite: Spanish 2114 and Spanish 2124 and permission of both the major professor of Spanish and the academic chair.
- 3413 Advanced Grammar and Composition (3) F***
Study of problems in grammar and writing. (May be repeated for credit with prior approval.) Prerequisite: Spanish 2114 and Spanish 2124. Lab Fee: \$20.
- 3423 Advanced Conversation and Phonetics (3) SP***
Intense practice in conversing with other students, performing in skits, giving reports, and making talks on a variety of useful topics. Prerequisite: Spanish 2114 and Spanish 2124. (May be repeated for credit with prior approval.) Lab Fee: \$20.
- 3433 Spanish Civilization (3) F***
A general introduction to the history and culture of Spain. Prerequisite: Spanish 2114 and Spanish 2124.
- 3453 Spanish-American Civilization (3) F***
A general introduction to the history and culture of Spanish America. Prerequisite: Spanish 2114 and Spanish 2124.
- 401V Independent Studies (1-5) F, SP, SU**
Courses for students, mainly majors who are capable of doing superior independent reading and research on various topics selected from Spanish literature and language. A total of six hours is permitted toward the major.
- 4413 Survey of Spanish Literature (3) SP***
A general overview of representative literary works from the Middle Ages to modern times. Reading and analysis of major authors. Prerequisite: Spanish 2114 and Spanish 2124. Satisfies the general education humanities literature requirement.
- 4423 Survey of Spanish-American Literature (3) SP***
A general overview of representative literary works from colonial to modern times. Reading and analysis of major authors. Prerequisite: Spanish 2114 and Spanish 2124. Satisfies the general education humanities literature requirement.
- 452V Travel in Spanish-Speaking Countries (1-5) F, SP, SU**
Study tours, usually offered in the summer session, providing on-site investigation of historical and contemporary culture with suitable preparation and follow-up work. A total of five hours is permitted toward the major. Instructor's contracted approval required.
- 4xnV Special Topics (1-5) Offered on demand**
A variety of topics will be made available to the student. Topics will be chosen by the faculty and may include suggestions from advanced students. The course will provide an in-depth study of a particular topic which is normally not covered or is only briefly surveyed in the regular slate of courses. Offered with sufficient demand and subject to staff availability.

*Offered in alternate years

Department of History, Politics and Philosophy

Howard Miller, Associate Professor and Academic Chair

W. Craig Bledsoe, Professor

J. Caleb Clanton, University Research Professor

Jerry L. Gaw, Professor

Richard C. Goode, Professor

Timothy D. Johnson, University Research Professor

Lee A. Mayo, Visiting Professor

Linda P. Schacht, Associate Professor

Marc S. Schwerdt, Assistant Professor

Guy Vanderpool, Visiting Professor

The Department of History, Politics and Philosophy houses three distinct academic programs. The history program prepares students to evaluate historical data in order to reach informed conclusions about the past and to appreciate contemporary challenges. The political science program equips students with knowledge of governmental processes and institutions, legal principles, political parties, and the interconnections between politics and society. The philosophy program educates students about the history of big ideas and the process of identifying and evaluating the basic philosophical and moral assumptions that shape the way we as humans think about ourselves and the world around us. Each of the department's majors and minors are designed to help students hone their analytical and critical thinking skills and develop their research and writing skills. The department's various majors equip students for numerous careers, as well as for graduate and professional studies. Graduates from the Department have been admitted to many of the nation's premier law and graduate schools.

Distinctives of the History, Politics and Philosophy Department

The Department of History, Politics and Philosophy offers students the opportunity to study with faculty who have distinguished themselves through research and publication, excellence in teaching and government service. Students are given the opportunity to extend themselves through a variety of internship opportunities, including with the Tennessee State Legislature. The department of history has recently undertaken innovative programs in the area of civil and human rights studies. The department hosts an active pre-law organization, Phi Alpha Delta; history honor society, Phi Alpha Theta; and political science honor society, Pi Sigma Alpha. The department's yearly travel course, the Washington Seminar, conducted in Washington, D.C., focuses on foreign policy and national security issues and is highlighted by an intensive week of briefings and seminars with key policy makers.

Career Opportunities

- High school teaching
- College teaching
- Business
- Government service
- Non-government organizations
- Humanitarian and social justice agencies
- Journalism
- Law
- Law enforcement
- Ministry
- Public history
- Restorative justice

Requirements for Majors

Students majoring in American studies, government and public administration, history, history teaching or political science must take an exit exam.

American Studies Major

B.A. degree program only

Total hours required - 45

Specific courses required:

English 2133 or 2143; 2903, 3233

History 2213, 2223, 4993

Political Science 1023

Elective hours chosen as follows:

Three hours:

English 46n3

Twelve hours selected from:

History 3203, 3213, 3243, 3253, 3263, 3313,

4013, 4103, 4153, 4163, 4173, 4183, 4193

Nine hours selected from:

Political Science 2253, 3283, 4203, 4213, 4803

American History Major

B.A. degree program only

Total hours required - 30

Specific courses required:

History 2213, 2223, 3013, 4993

Eighteen hours selected from:

History 3203, 3213, 3243, 3253, 3263, 3313, 4013, 4153, 4163, 4173, 4193, 470V (American)

European History Major

B.A. degree program only

Total hours required - 30

Specific courses required:

History 1113, 1123, 3013, 4993

Eighteen hours selected from:

History 3103, 3113, 3123, 3133, 3143, 3153, 3323, 4113, 4123, 4133 (up to nine hours of a European-based global learning experience can count toward the major)

Global History Major

B.A. degree program only

Total hours required - 30

Specific courses required—

History 3013, 4993

Global Learning 120V

Humanities 2003 or LUHI 2013

Humanities 2013 or LUHI 2023

Fifteen hours selected from:

History 3323, 4053, 4103, 4133, 4143

Bible 2313 or 4323

Political Science 3153, 4233

Law, Justice, & Society 4103

Government and Public Administration Major

B.A. or B.S. degree program

Total hours required— 39

Specific courses required—

Accounting 2503, 2513

Political Science 1023, 2253, 3223, 3313, 3323,

400V, 4993

Elective hours chosen as follows:

Six hours selected from:

Any upper-division political science courses

Six hours selected from:

Accounting 3503, 3513

History 3263, 4153

Information Technology 2043

Management 3503, 4453

Psychology 3323, 3413

Social Work 3113

Sociology 2113, 3023

History Major

B.A. degree program only

Total hours required— 39

Specific courses required—

History 1113 and 1123, or 1013 and 1023, or

LUHI 2013 and LUHI 2023

History 2213, 2223, 3013, 4993

Twelve hours from the following American history and

European history courses 3103, 3113, 3123, 3133,

3143, 3153, 3203, 3213, 3243, 3253, 3263

Nine hours from any 3000 or 4000 level History courses

History Teaching Major

B.A. degree program only

- I. General education required of secondary and K-12 teacher education students (see College of Education requirements)
- II. Professional education (see College of Education)
 - A. Core professional education
 - B. Specialized professional education History 3053
- III. Subject matter specialization
 - History 1013, 1023, 2213, 2223, 3323, 4013, 4023 plus 9 elective hours at or above the 3000 level
 - Political Science 1013

Note: History majors must also complete at least one of the following areas of endorsement: government/political science (9 hours including Political Science 1023, 3033, 3133) and/or economics (12 total hours - Economics 2503, 2513 plus six hours economics electives).

Note: History teaching majors have a built-in minor in education.

International Affairs Major

B.A. degree program only

Total hours required— 39

Specific courses required—

Political Science 1013, 3033, 3223, 4233, 4243, 4xx3, 4993

Twelve hours - Semester-long study abroad sponsored by Global Studies or CCCU (eligible programs found in undergraduate catalog under "Academic Program")

Six hours selected from the following:

Political Science 3133, 3153, 4213, 4813

History 3143, 3153, 4053, 4103, 4133, 4143

LJS 3413

Philosophy Major

B.A. degree program only

Total hours required— 30

Specific courses required—

Philosophy 1003, 2013, 3213, 3223, 3433, 4013, 4993

Nine hours selected from the following:

Any remaining Philosophy courses

Art 3133

Bible 4213

English 4203

Mathematics 2903

Political Science 3253, 3263, 3283

Psychology 3453

Political Science Major

B.A. degree program only

Total hours required— 39

Specific courses required—

Political Science 1013, 1023, 2253, 3223, 4xx3, 4993

Choose three hours from the following:

History 2213, 2223, 3143, 3153, 3253, 3263

Three hours from the following:

Political Science 3313 or 3323

Six hours from the following:

Political Science 3253, 3263, or 3283

Nine hours chosen from any Political Science offerings

(LU 1003, LUSS 2013, or LUSS 2053 may be used as an elective if taught by Political Science faculty.)

Political Science Major**International Relations Concentration**

B.A. degree program only

Total hours required— 39

Specific courses required—

Political Science 1013, 1023, 2253, 3033,

3223, 4233, 4243, 4xx3, 4993

History 3323

Six hours from the following:

Political Science 3133, 3153, 4213

Three hours from the following:

History 3143 3153 4053, 4103, 4133, 4143

LJS 3413, 4103

Political Science Major

Pre-Law Concentration

B.A. degree program only

Total hours required— 39

Specific courses required—

Political Science 1013, 1023, 2253, 3113, 3223, 3433,
4203, 4233, 4513, 4993

Six hours from:

Any upper level Political Science courses

Three hours selected from:

History 3253, 3263, 4273
Management 3613, 3623
LJS 2103, 3203

Political Science Major

Urban Studies Concentration

B.A. degree program only

Total hours required— 39

Specific courses required—

Political Science 1013, 1023, 2253, 3113, 3223, 4993
Economics 2503, 2513
Psychology 3413
Social Work 3113
Sociology 1123, 2113

Three hours from:

Political Science 3313, 3323

Nine hours from:

Political Science 3313, 3323
History 4173
Biology 1013
Environmental & Sustainability Science 4213
Information Technology 2043
Management 3503
Sociology 3023

Restorative Criminal Justice Major

B.A. degree program only

Total hours required— 51

Specific courses required—

Political Science 1023, 2253, 3433, 4203, 4513, 4993
Social Work 3333
Sociology 3023

Twelve hours Restorative Justice component:

Political Science 4253
History 4203, 4213
Law, Justice and Society 3403

Nine hours from the following theory and praxis courses:

Philosophy 3443
Political Science 400V, 470V
Law, Justice and Society 3103, 4403

Six hours from the following Human Behavior courses:

Psychology 1113, 3413, 3513, 4423

Recommended courses

Bible 3213, 4213

Requirements for Minors

Applied Ethics Minor

Total hours required— 18

Specific courses required—

Bible 1073, 1093, 4213
Philosophy 1003, 3433, 366V (3 hours)

Criminal Justice Minor

Total hours required— 18

Specific courses required—

Political Science 1023, 3433, 4203, 4513
Social Work 3333

Three hours selected from:

Political Science 2253, 470V (Intelligence
Community and National Security)
Sociology 2113, 3023
Psychology 3413, 3513
Law, Justice & Society 2103, 2203

Ethics Minor

Total hours required— 18

Specific courses required—

Bible 4213, Philosophy 3nnV, 2013, 3433
Either Philosophy 353V (3 hours) or 366V (3 hours)

Additional hours selected from:

Philosophy 1003, 3213, 3223

History Minor

Total hours required— 18

Specific courses required— None

Eighteen hours chosen from history courses (except
History 1213 or 3051). Six hours must be 1000 or 2000
level, remainder at 3000 or 4000 level.

History of Ideas Minor

Total hours required— 18

Specific courses required—

History 1113, 1123
Philosophy 3213, 3223
Political Science 3253, 3263

Philosophy Minor

Total hours required— 18

Specific courses required—

Philosophy 1003, 2013
Philosophy 3213, 3223

Six hours selected from:

Philosophy 3nnV, 3433, 3533, 366V, 4003, 4013, 4223

Political Science Minor

Total hours required— 18

Eighteen hours chosen from Political Science courses. Six
hours must be at 1000 or 2000 level, remainder
at 3000 or 4000 level. (LU 1003, LUSS 2013, or
LUSS 2053 may be used as an elective if taught by
Political Science faculty.)

Public Policy Minor

Total hours required— 18

Specific courses required—

Political Science 1023, 3123, 3323

Nine hours chosen from:

Political Science 2253, 4813
Economics 3303
Environmental Science & Sustainability 2123, 4213
History/Political Science 4153

International Studies Minor

This interdisciplinary minor is housed in the Department of
English and Modern Languages.



Course Descriptions

History (HI)

1013 World Civilization I (3) F

A survey of the major civilizations of the world, emphasizing the most significant trends, personalities and events in Asian, African, European and American civilizations from 4500 B.C. to A.D. 1500.

1023 World Civilization II (3) SP

Same as 1013 except begins at 1500 and continues to present.

1113 Foundations of Western Civilization to 1600 (3) F, SP, SU

A survey of the major personalities, events and trends in the early history of Western civilization.

1123 Foundations of Western Civilization Since 1600 (3) F, SP, SU

A survey of the major personalities, events and trends in Western civilization since the Reformation.

2213 History of the United States I (3) F, SP, SU

European backgrounds to the Civil War.

2223 History of the United States II (3) F, SP, SU

Civil War to the present.

3013 Historiography (3) F

An introduction to the discipline of history that includes schools of thought, methods of research, along with historical writing and presentation.

3053 Methods of Teaching History (3) F

To be taken before the Professional Semester. The major requirement is the construction of a teaching unit.

3063 History of Medicine and Related Sciences (3) F*

The study of medical research and health care since ancient times.

3103 Ancient Civilizations (3) SP

A survey of ancient civilizations beginning with the rise of Mesopotamia and Egypt and progressing through the fall of the Roman Empire. Special attention will be given to the Classical World of Greece and Rome.

3113 Medieval Europe (3) F*

A survey of Medieval civilization from the fall of the Roman Empire to the eve of the modern world.

3123 Renaissance and Reformation (3) SP*

A course emphasizing the Italian and Northern Renaissances and the Protestant and Catholic Reformation movements.

3133 Eighteenth Century Europe (3) F*

This course spans Europe from the Treaty of Westphalia to the defeat of Napoleon.

3143 Nineteenth Century Europe (1815-1914) (3) SP

A study that begins with the fall of Napoleon and continues to the outbreak of World War I.

3153 Twentieth Century Europe (1914-present) (3) F

Beginning with World War I, this course continues to the present.

3203 Colonial America (3) F*

A survey of the Colonial Americas ending with the American Revolution. Prerequisite: History 2213 or permission of the instructor.

3213 National Period (1776-1850) (3) SP*

This course covers the origin of American institutions and the development of American life, politics and culture from the decision to declare independence in 1776 to the Compromise of 1850. Prerequisite: History 2213 or permission of the instructor.

- 3243 Civil War and Reconstruction (1850-1877) (3) F***
Beginning with the Compromise of 1850, this course stresses the division of the United States to the end of the Reconstruction era. Prerequisite: History 2223 or permission of the instructor.
- 3253 Foundations of 20th Century America (1877-1941) (3) SP***
A study emphasizing Industrialism, Populism, Progressivism, World War I, the Roaring '20s and the New Deal. Prerequisites: History 2223 or permission of the instructor.
- 3263 Recent American Issues (1941-present) (3) SP**
A study of major issues beginning with World War II to the present. Prerequisite: History 2223 or permission of the instructor.
- 3313 Historical Geography of the United States (3) SP***
A study of the geography of the United States from discovery and settlement, giving attention to the spread of population and the problems faced until the 1890s.
- 3323 Cultural Geography (3) F**
An examination of the main regions of global geography with an emphasis on area studies and human-to-land relationships.
- 400V Internship in Public History (1-12) F, SP**
Application process begins the semester before internship is to begin.
- 4013 Religion and American Culture (3) F, SP***
An overview American religious thought and practice from the Colonial era to the present.
- 4023 History of Tennessee (3) SP***
The study of Tennessee emphasizing the political, cultural, social and religious developments.
- 4033 Public History (3) F***
A course that focuses on non-teaching vocations and professionals which use historical skills outside of the classroom, including museums, archives, preservation, etc. This course may satisfy the SALT Tier II requirement.
- 4053 History and Politics of the Middle East (3) SP***
An historical survey of Middle Eastern civilizations and an analysis of their political systems.
- 4103 Latin America (3) SP***
An overview of Latin America with emphasis on the political, social and economic conditions.
- 4113 England Before the 17th Century (3) SP***
A study of the English history from earliest times to the death of Elizabeth I.
- 4123 England Since the 17th Century (3) SP***
The political, social and cultural development of England since 1600.
- 4133 History and Politics of Russia (3) F***
A study of 19th and 20th century Russia with special emphasis on the Russian Revolution.
- 4143 Modern China and the Far East (3) Offered on demand**
A survey of the political, religious, intellectual and cultural developments of modern China, Japan, Korea and Southeast Asia.
- 4153 Urban History and Politics (3) SP***
A historical and political overview of the city in American history. See also Political Science 3113.
- 4163 The South in American History (3) Offered on demand**
A course that stresses ideas and attitudes that make the South a distinct region.
- 4173 The American Civil Rights Movement (3) F***
A survey of America's Civil Rights history with special attention to Nashville's role in the movement.
- 4193 U.S. Military History (3) SP***
A survey of military history that focuses on American wars, military leadership, politics and the evolution of U.S. military doctrine. Prerequisite: History 2213 and 2223 or permission of instructor.
- 4203 History and Politics of Prisons and Punishment (3)**
This course will explore both the historical development of prisons, and the ongoing economic, sociological, and theological consequences of the prison industrial complex.
- 4213 History and Politics of Reconciliation (3)**
How do societies reconcile an offense: easy reconciliation may merely appease and encourage future crimes and injustices, yet Christians are called to be ministers of reconciliation. Utilizing international case studies (e.g., South Africa, Rwanda, Northern Ireland, the Middle East and the U.S.) this course assesses several historical policies and practices of reconciliation.
- 470V Selected Topics (1,2, 3) Offered on demand**
A diversity of topics will be made available to the student. Topics will be announced in the semester schedule. Courses offered the past include World War II, Nashville Scenes, Byzantine History, History of Germany, History of France and Lost Civilizations.
- 4803 History Travel (3) SU**
A group travel course with an instructor from Lipscomb. There are reading and writing requirements associated with the course.
- 4993 Senior Seminar (3) SP, SU**
This capstone course is required of all history and American studies majors. It is a rigorous research and writing course that will result in a senior thesis on a historical topic. Prerequisite: HI 3013.
- Philosophy (PL)**
- 1003 Introduction to Philosophy (3) F, SP**
An introduction to several major thinkers, traditions and problems in philosophy. Some consideration is given to philosophical method, epistemology, metaphysics, philosophy of religion and ethics.
- 2013 Logic (3) SP***
A study of correct formal and informal reasoning. Includes a discussion of deductive and inductive arguments, as well as formal and informal fallacies.

- 3213 Ancient and Medieval Philosophy (3) F**
A study of Greek and Roman philosophers with emphasis on Plato and Aristotle. An examination of major concerns of medieval philosophy with emphasis on the works of Thomas Aquinas.
- 3223 Modern Philosophy (3) SP**
A study of major philosophical issues from the Enlightenment through the nineteenth century. Includes works from philosophers such as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Reid, and Kant.
- 3433 Ethical Theory (3) F*, SP***
A survey of major theories in the history of moral philosophy. Includes works from philosophers such as Plato, Aristotle, Aquinas, Kant, Mill, and contemporary moral philosophers.
- 3533 Biomedical Ethics (3) F**
The course will begin with brief consideration of ethical theory and proceed to a consideration of the major problems of bioethics: medical confidentiality, informed consent, the allocation of scarce medical resources, abortion, euthanasia and the physician-patient relationship. Consideration will be given to biblical perspectives.
- 366V Business and Professional Ethics (1, 2, 3) F, SP, SU (2); SU* (3) Adult degree program**
Lectures, readings and case studies will be used to focus attention on the major problems in the ethics of business and professional life. Consideration will be given to biblical perspectives.
- 3nnV Topics in Philosophy (1, 2, 3) F, SP**
Selected readings around a contemporary issue of philosophical significance. May be repeated.
- 4003 Metaphysics (3) SP***
An examination and critique of various presuppositions about the nature of reality and the implications of those presuppositions.
- 4013 Philosophy of Religion (3) F***
A study of some of the basic philosophical issues pertaining to religion, with attention given to the arguments for and against the existence of God, the rationality of belief in miracles, the problem of evil, religious language and experience.
- 4993 Seminar in Philosophy (3) SP***
Required of all majors. Prerequisites: Philosophy 1003, 2013.
- 4nnV Readings and Independent Study in Philosophy (1, 2, 3) Offered on demand**
A course designed for independent study for students majoring or minoring in philosophy. Reading, research and writing will be assigned to provide the student with opportunities to extend learning programs in the philosophy curriculum. Three hours are permitted toward the major or minor. Permission of instructor required.
- 1023 Introduction to American Government (3) F, SP**
An introduction to American government and politics, focusing on the presidency, congress and the courts.
- 2253 American State and Local Government (3) SP**
An examination of the structure, functions and politics of state and local governments.
- 3013 Political Communication (3) Offered on demand**
The study of political communication including the mass media and public opinion.
- 3033 International Relations (3) SP***
An examination of the international political system.
- 3113 Urban History and Politics (3) Offered on demand**
The theory, history, structure and politics of the city.
- 3123 Public Policy Making (3) SU***
A systematic study of elements of the policy process, examining contemporary policy issues and policy analysis.
- 3133 Comparative Governments (3) F***
An analysis of patterns of political development, social forces, institutions and public policy in modern Europe.
- 3153 Politics of Developing Countries (3) Offered on demand**
An analysis of the problems facing the non-western, less developed states of the world.
- 3213 U.S. Political Parties and Elections (3) F***
An analysis of the U.S. party system giving emphasis to the history, functions and organization of parties.
- 3223 Contemporary Political Methodologies (3) SP**
An introduction to statistical and research methods in the field of political science.
- 3253 Classical Political Thought (3) F**
A chronological study of the great thinkers in the western tradition from the Greeks to the theorists of the seventeenth century.
- 3263 Modern Political Thought (3) SP**
A chronological study of the great thinkers in the western tradition from the seventeenth century to the present.
- 3283 American Political Thought (3) F***
A study of the American political tradition from colonial status to the present.
- 3313 Public Administration I (3) F**
A study of management in the executive departments of the national, state and local levels focusing on the development of inter-disciplinary skills in the areas of management, organizational theory and administrative leadership and accountability.
- 3323 Public Administration II (3) F**
A study of management in the executive departments at the national, state and local levels focusing on concepts like decision-making, policy making, budgeting, administrative law and ethics, which are relevant in a variety of disciplines.
- 3413 Executive-Legislative Process (3) SP***
Examines the role of Congress and the presidency in the development of American politics. Attention is given to relations between the Executive Office of the president and Congress.

Political Science (PO)

- 1013 Introduction to Politics (3) F, SP**
A study of the political patterns of today's world, explaining the instruments, functions and theories of modern governments.

- 3433 Judicial Process (3) SP***
An examination of the role of law, the judicial structure, process and participation in federal and state courts, and problems confronting the justice system.
- 400V Internship in Political Science (1-12) SP**
A practicum for political science and public administration majors. Six hours maximum counted toward major; three hours toward minor.
- 4053 History and Politics of the Middle East (3) SP***
An historical survey of Middle Eastern civilizations and an analysis of their political systems.
- 4133 History and Politics of Russia (3) F***
A study of 19th and 20th century Russia with special emphasis on the Russian Revolution.
- 4203 Constitutional Law (3) F**
An examination of constitutional development by studying Supreme Court decisions dealing with judicial review, separation of powers, federalism, criminal procedure, First Amendment freedoms and civil rights.
- 4213 American Foreign Policy (3) SP***
A study of traditions, organization, limiting factors and conduct of American foreign policy.
- 4233 International Law and International Organizations (3) Offered on demand**
Investigates principles of international law and their relationship to nation states and international organizations.
- 4243 International Security: Problems and Solutions (3)**
An examination of the nature of security, force and the threat of force in the international realm, covering both traditional and non-traditional areas of security. It examines a range of concepts from "hard security" to such ideas as energy security, economic security, cyber security and human security.
- 4253 Restorative Justice (3)**
A study of the field of criminal justice from a Christian perspective which emphasizes reconciliation, conflict management, ethical standards, empathy and restoration to society.
- 4xx3 International Political Economy (3)**
An examination of the political foundations of international economic relations, including foreign investment, international monetary relations, trade issues and economic sanctions.
- 4513 Criminal Law and Procedure (3) SP***
A study of the American criminal justice system, its laws, procedures and participants.
- 470V Selected Topics (1, 2, 3) Offered on demand**
A study of selected problems in the field of political science.
- 4803 Political Science Travel (3) SU**
A group travel course with an instructor from Lipscomb. There is also a reading requirement for the course.
- 4813 Washington Seminar (3) SU**
Conducted in Washington, D.C., this course is highlighted by an intensive week of briefings and seminars with key policymakers. The focus is on foreign policy and national security issues. There is also a reading requirement for the course.
- 4993 Seminar in Political Science (3) SP, SU**
This capstone course is required of all political science majors. It is a rigorous research and writing course that will result in a major research paper within the discipline of political science. Prerequisite: PO 3223.

*Offered in alternate years



School of Natural Sciences and Mathematics

Medically-Related Preprofessional Programs

James T. Arnett, *Academic Chair, Health Professions Advisory Committee*

Preparation for Admission to Medically-Related Professional Programs

Lipscomb University provides classes and courses of study which prepare students for admission to medically-related professional programs such as medicine, dentistry, pharmacy, optometry, veterinary medicine, physical therapy, occupational therapy, physician assistant, medical technology and dental hygiene programs. We also provide a curriculum which will prepare students to enter graduate degree programs in nursing.

The health care advisory program at Lipscomb has an excellent reputation of high acceptance rates to medically-related professional schools and, more importantly, outstanding preparation of students for the professional programs. While a student may major in any department in the university while preparing for health care professional schools, all of these schools have sets of prerequisite courses from the areas of biology, chemistry and physics which are exceptionally strong departments at Lipscomb. Our alumni regularly report that they were well-prepared for the academic demands of professional school. Likewise, faculty and administration at the professional schools praise the preparation of Lipscomb students.

Health Professions Advisory Committee

Lipscomb University's Health Professions Advisory Committee is composed of faculty from the sciences as well as other academic areas on campus. The HPAC provides information on health care professions and prerequisite courses for various professional schools, as well as workshops on interviewing and writing essays for admission to the schools. The committee interviews students planning to apply to medically-related professional programs and writes letters of recommendation to those programs. Students interested in pursuing careers in health care should register with the HPAC office to receive information about speakers, recruiters, job opportunities and other resources available to them. Information on pre-professional programs is available in the HPAC office and on the website: www.lipscomb.edu/premedical.

Degrees Conferred for Work Completed in Other Institutions

The offices of the HPAC and the registrar can provide information on the amount of work which must be completed at Lipscomb University before entering the professional school. Certain three-year programs can qualify a student

for a baccalaureate degree at Lipscomb upon the satisfactory completion of the first year of professional school. A student must complete all general education requirements for the B.A. or B.S. degree, a minimum of 18 hours toward a major and approximately 90 semester hours during the three years at Lipscomb.

Suggested First Year Curricula for Medically-Related Pre-Professional Programs

Detailed lists of prerequisite courses for each of the health care professional areas and suggested first-year curricula for selected pre-medical programs are available in the HPAC office and the offices of the chairs of biology and chemistry.

Prerequisites for Lipscomb University's College of Pharmacy

Undergraduate prerequisites for admission to Lipscomb University's College of Pharmacy are listed in the College of Pharmacy section. Interested students should consult with the office of the Health Professions Advisory Committee.

Medical Technology Program Lipscomb University and Vanderbilt University Medical Center

This program requires three years of study at Lipscomb University and one year study at Vanderbilt University Medical Center. Three years (approximately 95 semester hours) credit will be earned at Lipscomb before beginning study at Vanderbilt. After the completion of study at Vanderbilt, this credit will be added to the student's Lipscomb transcript. Total credit hours (Lipscomb plus Vanderbilt) for graduation will be 126 semester hours.

A suggested first-year program of study at Lipscomb is outlined below. Second and third year courses may be obtained from the registrar's office or from the Health Professions Advisory Office at Lipscomb.

First Year

	F	S
Lipscomb Seminar 1103	3	
Bible 1073, 1083	3	3
Biology 1134, 1144	4	4
English 1313	3	
Math 1113		3
Communication 1003	3	
Elective	<u>3</u>	<u>3</u>
	16	16

Department of Biology

Kent Gallaher, *Professor and Academic Chair*

James T. Arnett, *Professor*

C. Phillip Choate, *Professor*

Beth Conway, *Associate Professor*

Kevin Heath, *Assistant Professor*

Tamera Klingbyll, *Instructor*

John S. Lewis, *Assistant Professor*

Jon Lowrance, *Professor*

Florah Mhlanga, *Professor*

Bonny Millimaki, *Assistant Professor*

Mary Sledge, *Professor*

Amanda Williams, *Instructor*

The mission of the Department of Biology at Lipscomb University is to enable the student to develop a basic understanding of and an appreciation for the biological world. The curriculum is designed to meet the needs of those students who plan to enter graduate and professional schools, those who plan to teach and those who plan biology-oriented careers. The department will encourage critical thinking skills and help students integrate a working knowledge of biology with associated sciences in order to achieve their career goals via an educational experience presented in the context of a Christian world view.

Distinctives of the Biology Department

The department is housed in a fully-equipped facility offering a wide range of courses and laboratory experiences. Students interested in research are given opportunities in investigative laboratory experiences in specifically designed courses, independent projects guided through faculty research interests, senior honors thesis projects and summer research internships sponsored by the biology department or other universities. In addition to laboratory experiences, the department offers several field-oriented experiences including specific courses and summer programs in field biology and environmental science.

Career Opportunities

The department offers a Bachelor of Science and a Bachelor of Arts degree with a major in biology, biology for teacher certification and molecular biology. Students are prepared for post-graduate work in a wide range of biological fields such as molecular biology, genetics, ecology and environmental sciences. In addition, many students pursue careers in health care fields such as medicine, dentistry, veterinary science, pharmacy, nursing, physician assistant programs and other allied health professions. Among recent graduates, 87 have attended medical school, 17 attended dental school, 35 attended pharmacy school, five attended veterinary school and seven enrolled in doctoral programs. The department's curriculum is relevant and rigorous with a faculty interested in assisting the students in achieving their career goals in a highly competitive world. Students graduating with a degree in biology have a wide variety of career opportunities available.

The graduates of the Department of Biology have distinguished themselves in many ways and are presently utilizing their training in the following areas:

- Medical, dental, pharmacy, nursing, veterinary, medical technology and medically-allied schools
- Advanced degrees in biology and related fields

- Administrators, research assistants and technologists at clinics, state health laboratories, hospitals and research centers
- Surgical assistants
- Teaching at junior and senior colleges, universities and medical schools
- High school teaching
- Sales representatives for pharmaceutical firms
- Science education coordinators for state departments of education
- Biomedical librarians
- Biomedical law
- Medical secretaries
- Environmentalists, foresters, conservationists and wildlife biologists for state and federal governments
- Biologists for industry

Requirements for Majors

Biology Major

B.A. or B.S. degree program

Total hours required— minimum 56

Specific courses required—

Biology Core*

Biology 1134, 1144, 2114, 3114, 4044, 4802

Biology electives**

Five courses selected from: Biology 2213 or (3514 and 3524), 2424 or 3214, 2623, 2813, 3223, 3323, 3413, 3903, 4013, 4023, 4213, 4323, 4413, (450V or 460V)

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221

Mathematics 2183

The general education requirement in Mathematics for a biology major cannot be satisfied by a course numbered below Math 1113.

* A minimum grade of "C" in each of the core courses is required.

** Variable credit courses used to satisfy the major elective requirement must be at 2 credit hours or above and are subject to approval by the academic chair.

Note: Each biology major must take the Major Field Achievement Test in biology prior to graduation.

Biology Teaching Major (General Science-Biology)

B.A. or B.S. degree program.

- I. General education required of secondary and K-12 teacher education students.* See the Department of Education section.
- II. Specialized professional education
Biology 3053
- III. Subject matter specialization
Biology**
Biology 1134, 1144, 2114, 2213, 3114, 4044, 4802
Two courses selected from: Biology 2424, 2623(F), 2813(F), 3612(F), 4013, 4023, 4213, 4413, at least one course must be field oriented (F).
Chemistry 1013, 1023
Mathematics 1113
Physics 1013

*Omit Biology 1003 and Mathematics 1043. Chemistry 1013 and Physics 1013 are included in subject matter specialization.

**A minimum grade of "C" in each of the biology courses.

Note: Biology teaching majors have a built-in minor in education.

Molecular Biology Major

B.A. or B.S. degree program

Total hours required— minimum 71

Specific courses required—

Biology Core*

Biology 1134, 1144, 2114, 3001, 3114, 4123, 450V or 3903, 4802

Biology Electives**

Five courses selected from: Biology 3214, 3223, 3323, 3333, 3514, 3524, 4013, 4023, 460V

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 3313

Mathematics 2183

Physics*** 1214, 1224

* A minimum grade of "C" in each of the core courses is required.

** Variable credit courses used to satisfy the major elective requirement must be at 2 credit hours or above and are subject to approval by the academic chair.

Note: Each biology major must take the Major Field Achievement Test in biology prior to graduation.

*** Students may substitute Physics 2414 and Physics 2424 and its calculus prerequisites.

Biology Major - Pharmacy 3+1 Program

B.A. or B.S. degree program

Total hours required— minimum 70

Specific courses required—

Biology Core*

Biology 1134, 1144, 2114, 3114, 4044, 4802

Biology Electives**

Two courses selected from:

Biology 3223, 3333, 4013, 4023, 4213, 4343

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221

Mathematics 1314, 2183

Physics** 1214, 1224

Pharmaceutical Sciences*** 1113, 1213, 1313, 1512

* A minimum grade of "C" in each of the core courses is required.

** Students may substitute Physics 2414 and Physics 2424 and its calculus prerequisites.

***This program is designed specifically for students who wish to matriculate to the Lipscomb University College of Pharmacy. After the first year of pharmacy school, specific pharmaceutical sciences courses will be used to satisfy the remainder of the undergraduate biology requirements and students will then be awarded a degree in Biology.



Molecular Biology - Biomolecular Science Graduate Bridge Program

B.S. to M.S. degree program

Total hours required— minimum 98

Specific courses required—

Biology Core*

Biology 1134, 1144, 3001, 3101, 3114, 3214, 3323, 3903 or 450V, 4802

Biology Electives**

Three courses selected from: Biology 3223, 3333, 3514, 3524, 4023, 4213, 4323

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 3313

Mathematics 2183

Physics*** 1214, 122

Biomolecular Science Core

Biomolecular Science 5013, 5103, 5113, 5213, 5223, 5503

Track 1: Laboratory Research

Biomolecular Science 5213

Three courses selected from: Biomolecular Science 5023, 5313, 5303, 5323, 5413, 5423, 5433, 5453

Track 2: Human Disease

Biomolecular Science 5113, 5463

Three courses selected from: Biomolecular Science 5023, 5313, 5303, 5323, 5413, 5423, 5433, 5453

* A minimum grade of "C" in each of the core courses is required

Note: This program requires the student to complete 120 hours of undergraduate credit and 30 hours of graduate credit for a total of 150 credit hours. Upon completion, the student will simultaneously receive two degrees, the B.S. in Molecular Biology and the M.S. in Biomolecular Science.

Requirements for Minor

Biology Minor

Total hours required— 18

Specific courses required—

18 hours of Biology courses

Note: Students seeking teaching endorsement in biology should consult the chair of the department of biology.

Course Descriptions

Biology (BY)

1003 Foundations of Biology (3) F, SP, SU

This course is offered for the non-biology major and is designed to develop an interest in the biological world of which he/she is a part. The fundamental principles of biology are covered and special consideration is given to ethical issues with a biological basis. Does not count towards a biology major. Lecture, 3 hours; Laboratory, 1 hour. This course may satisfy the SALT Tier II requirement.

1013 Environmental Biology (3) F

A freshman-level course in environmental science. A study of the natural environment as it relates to ecology, ecosystems, human population growth, soil formation and conservation, biotechnology, toxicology, air and water quality, biodiversity, land use management, energy resources and waste management. Discussions will include the ethics and policy-making process related to these issues. Does not count towards a biology major. Lecture, 2 hours; Laboratory, 2 hours. This course may satisfy the SALT Tier II requirement.

1134 Principles of Biology: Cell and Genetics (4) F, SP

This course is required for all biology majors and minors and should be taken during the freshman year. This course is designed to introduce the student to major concepts of the life sciences with an emphasis on cellular biology. Biological chemistry, organelle structure and function, membrane transport, cell cycles, energy metabolism, genetics and cell synthesis will be covered. Appropriate lab activities are included. Lecture, 3 hours; laboratory, 2 hours.

1144 Principles of Biology: Diversity and Ecology (4) F, SP

This course is required of all biology majors and minors and should be taken during the freshman year. This course is designed to introduce the student to major concepts of the life sciences with an emphasis in botany, zoology and ecology. Surveys of the kingdoms, plant structure and function, plant hormones, animal structure and function, animal development, animal behavior and basic ecological concepts will be some of the topics covered. Appropriate lab activities are included. Lecture, 3 hours; laboratory, 2 hours.

2114 Cell Biology (4) F, SP

This course is designed to cover the general principles of cell biology. History of cell biology, cytological techniques, cell boundary, cell physiology, organization of cytoplasm, comparative cytology, cell reproduction, cell inheritance and development are major areas covered. Laboratory experiences include types of microscopy, morphology of procells and eucells, selected exercises in cell physiology, membrane transport, mitosis and meiosis, and special cytological and histological techniques. Prerequisite: Biology 1134 with a minimum grade of "C." Lecture, 3 hours; laboratory, 2 hours.

2213 Introductory Human Anatomy and Physiology (3) SP, SU

Fundamental anatomy and physiology of the human body are examined by lectures, readings and laboratory exercises. The organ systems and their relationships are reviewed with emphasis on practical application when possible. No prerequisites. Lecture, 2 hours; laboratory, 2 hours.

2321 Medical Terminology (1) F

The terminology of the biomedical sciences is reviewed. The use of combining forms, prefixes and suffixes is emphasized with a goal of better comprehension of written material. Lecture, 1 hour. Does not count toward the biology major.

2424 Introductory Microbiology (4) F, SP, SU

Structure, growth and metabolism of microorganisms are discussed briefly with the major emphasis in the course on practical aspects of bacteriology including control of bacterial growth, bacteria of medical interest and microorganisms in the food and dairy industry. Lecture, 3 hours; laboratory, 3 hours.

2434 Anatomy and Physiology I (4) F, SP

This course is primarily designed for students in nursing and allied health sciences. The structure and function of the human body are examined with emphasis upon control mechanisms. The major body systems are studied with lecture and laboratory experiences with a systematic approach. Cell structure, physiology and tissue systems will be emphasized. Lecture, 3 hours; laboratory, 2 hours. This course is not open to biology majors or minors.

2444 Anatomy and Physiology II (4) F, SP

This course is a continuation of Biology 2434. The circulatory, respiratory, digestive, excretory, endocrine and reproductive systems are studied with emphasis upon homeostasis. Major topics of physiology are integrated with a systematic approach. Prerequisite: Biology 2434. Lecture, 3 hours; laboratory, 2 hours. This course is not open to biology majors or minors.

2623 Field Botany (3) SP*

A field oriented course designed to familiarize the student with the flowering plants including wildflowers, vines, flowering shrubs and trees. The general principles of plant systematics are also covered. The field experience will include day trips to natural areas and state parks. One weekend field trip is required (a fee will be charged). Prerequisite: Biology 1144. Lecture, 2 hours; laboratory, 3 hours.

- 2813 Field Zoology (3) F***
This course is designed to acquaint the student with a variety of field techniques in the collection and identification of animals. The topics covered will also include the preparation and cataloging of specimens. Field experiences will be emphasized. Prerequisite: Biology 1144. Lecture, 2 hours; laboratory, 3 hours.
- 3001 Biology Seminar (1) SP**
This course is designed for biology and molecular biology majors who have completed Biology 450V or 3903. The course will provide the opportunity for students to improve their oral communication skills by presenting original research or research experience obtained in an internship. Prerequisites: Biology 450V or 3903.
- 3101 Biomolecular Research Methods Laboratory (1) SP**
This instructor-guided course is designed to prepare molecular biology students for summer research internships. Students will learn to search and review the literature, solve scientific problems using common molecular biology laboratory techniques, and keep a lab notebook. This course is a 1-hour lab course with an emphasis on developing independence in research methods. Laboratory, 2 hours.,
- 3053 Methods of Teaching Biology (3) F, SP**
This course is designed to familiarize the student with a wide variety of sources of biological teaching materials including instrumentation and computer applications. The course also provides experience in planning, in applying the methods of science, and in conducting laboratory and field activities involving students. Special consideration is given to identifying and maintaining the highest level of safety procedures. Lecture-laboratory, 3 hours. Open to biology teaching majors only.
- 3114 Genetics (4) F, SP**
An introduction to the basic concepts and principles of heredity. An historical approach is used to cover both classical and modern genetics including molecular genetics. The laboratory work includes experiments with fruit flies, plants, fungi and microorganisms. Prerequisite: Biology 1134 with a minimum grade of "C." Lecture, 3 hours; laboratory, 2 hours.
- 3214 Microbiology (4) F**
This course is designed to provide a foundation in bacteriology. The first half of the course deals with structure, growth and metabolism of bacteria; the remainder of the course is spent on several aspects of applied microbiology and includes a survey of medically important bacteria. Prerequisite: Biology 2114 with a minimum grade of "C." Lecture, 3 hours; laboratory, 3 hours.
- 3223 Virology (3) SP**
This course serves to acquaint the student with fundamental aspects of viral structure and reproduction, using bacterial and animal viruses as examples. The latter part of the course includes a survey of viruses important in human disease. Prerequisite: Biology 2114 with a minimum grade of "C." Lecture, 3 hours.
- 3323 Immunology (3) F**
This course is designed to acquaint the student with basic aspects of immunology including antigenicity, antibody structure, detection and measurement of antigen-antibody reactions, and hypersensitivity reactions. Prerequisite: Biology 2114 with a minimum grade of "C" and junior standing or permission of instructor. Recommended: Biology 3114. Lecture, 3 hours.
- 3333 Molecular Basis of Human Disease (3) F**
This course is designed to equip students to critically read and interact with the scientific literature using primary scientific journals that describe major findings in the molecular basis of human diseases. Effectively presenting disease-relevant scientific journal articles is also a focus of this course. Prerequisites: Biology 2114, 3114 with a minimum grade of "C."
- 3413 Limnology (3) SP***
This course instructs the student in the basic aspects of the physical, chemical and biotic factors of inland (fresh) waters. Both lentic and lotic systems are studied. An extensive use is made of local lakes and streams for laboratory investigation. Lecture, 2 hours; laboratory, 3 hours.
- 3514 Human Anatomy and Physiology I (4) F**
The structure and function of the human body are examined with emphasis upon control mechanisms. The nervous, integumentary, muscular and skeletal systems are studied with lecture and laboratory experiences. There is a regional approach to the anatomy of the extremities, head and neck. Open to biology majors and minors only. Prerequisite: Biology 1134. Lecture, 3 hours; laboratory, 2 hours.
- 3524 Human Anatomy and Physiology II (4) SP**
This course is a continuation of Biology 3514. The circulatory, respiratory, digestive, excretory, endocrine and reproductive systems are studied with emphasis upon homeostasis. Acid balance, fluid balance and immunity are also integrated into the systematic approach. Prerequisite: Biology 3514 or permission of the instructor. Lecture, 3 hours; laboratory, 2 hours.
- 3612 Nature Study (2) F, SP, SU**
An elementary introduction to the study of the natural world. The course is laboratory and field oriented with both living and non-living materials being used to introduce the student to his/her natural surroundings. Emphasis is placed upon the student's developing the ability to identify such things as insects, birds, reptiles, trees, wild flowers, rocks and minerals. Lecture, 2 hours; laboratory, 2 hours. Does not count towards a biology major.
- 3712 Conservation of Natural Resources (2) F, SP, SU**
This course is designed to provide the student with a basic understanding of the extent of our natural resources and the problems associated with their conservation. Interrelationships between the biotic and abiotic elements of environment; population dynamics and the effects of population changes on biotic and abiotic resources; geological processes; and pollution of natural resources are studied to provide a factual basis on which action can be taken to properly use our resources and improve our environment. Lecture, 2 hours. Does not count towards biology major.
- 3903 Internship in Biology (3) F, SP, SU**
The internship provides the opportunity for hands-on experience by working for various agencies, companies, zoos, laboratories or other groups involved in some aspect of biology. Evaluation will be based on supervisor assessment, regular progress reports and a summary report at the end of the semester. Arrangements for the internship should be made during the semester preceding the one in which the student plans to register for the



course. Prerequisites: Junior standing, completion of at least 19 hours of biology course work, and permission of the academic chair.†

4013 **Molecular Biology (3) SP**

This course focuses on current issues in molecular biology. Topics include DNA structure and replication, transcription, RNA processing, translation, regulation of gene expression and variability in DNA. The laboratory covers basic molecular techniques including electrophoresis of DNA, restriction endonuclease digestion and Southern blotting. Prerequisites: Biology 2114, 3114. Lecture, 2 hours; laboratory, 3 hours.

4023 **Cancer Biology (3) F***

This course is designed to give students in-depth understanding of the molecular basis of cancer, as well as an increased knowledge in clinical aspects of cancer diagnosis and treatment. Characteristics of cancer cells, oncogenes and tumor suppressors, the tumor microenvironment, tumor immunology, and novel cancer therapies are major areas covered. Prerequisites: Biology 2114 and 3114.

4044 **Ecology (4) F, SP**

An overview of the science of ecology. Three levels are examined: the individual, the population and community, and the ecosystem. Some major concepts covered include abiotic environmental limitations, energy and nutrient flow, population ecology and genetics, and community and ecosystem level interactions. Ecosystems worldwide are discussed, but North American ecosystems are emphasized. Prerequisites: Biology 1134, 1144, 3114. Lecture, 3 hours; laboratory, 3 hours.

4213 **Embryology (3) SP***

A course which emphasizes developmental stages as well as the mechanisms of developmental processes. The

emphasis is on mechanisms rather than organisms in the class work. The laboratory work is concerned with experimental embryology and developmental stages of selected organisms. Prerequisite: Biology 3114. Lecture, 2 hours; laboratory, 2 hours.

4323 **Histology (3) SP**

The study of microscopic anatomy of the human is undertaken with the emphasis upon visual materials. The primary tissues are reviewed in detail, followed by a survey of selected organs. Prerequisite: Biology 2114 with a minimum grade of "C." Lecture, 2 hours; laboratory, 2 hours.

4413 **Vertebrate Zoology (3) F***

A general survey of vertebrate animals, with special emphasis on comparative anatomy. Laboratory assignments include considerable dissection and often require independent lab work. Prerequisite: Biology 1144 with a minimum grade of "C." Lecture, 2 hours; laboratory, 2 hours.

450V **Independent Research (1, 2) F, SP, SU**

The student chooses an area of particular interest, and together with the instructor a research problem is selected. The emphasis may be either field or laboratory oriented. A paper is written and submitted at the end of the course. The course is designed to provide the student an opportunity to pursue independent research and provide experience in scientific writing. Prerequisite: Permission of instructor and academic chair.†

460V **Special Topics in Biology (1-4) F, SP, SU**

Selected topics from the field of biology are offered. The course may be either lecture or laboratory-oriented depending upon the topic selected. The study represents an in-depth approach to a specific area of interest to the student. Prerequisite: Permission of instructor. The following are some of the most recently offered special topics: advanced physiology, medical herbalism, arid lands ecology, conservation and biodiversity, and coastal ecology, companion animal biology, and animal nutrition.

4802 **Capstone Course (2) F, SP, SU**

In this course the theory of evolution will be investigated in a historical, religious and scientific context. The focus of the discussion-oriented class will be on macroevolutionary theory. Arguments and evidences in various disciplines used to support the theory are presented with discussion of strengths and weaknesses. The course relies heavily on outside readings from classic and current articles, and books by both creationist and evolutionist apologetists. World view and its influence on theory formation and acceptance, with emphasis on Christian and naturalistic worldviews, is discussed. Limitations of science and impacts which evolutionary theory has had on other disciplines are also included. Prerequisites: senior standing and a minimum grade of "C" in all major core courses.

† No student may be approved for Independent Study, Research or Internship until the Academic Chair has received the appropriate form with the general topic, hours credit and signatures of the student and directing instructor. Forms are available from the academic chair or instructor.

*Offered in alternate years

Department of Chemistry and Biochemistry

C. Kent Clinger, *Professor and Academic Chair*

J. Ronald Boone, *Professor*

Linda R. Phipps, *Professor*

Bennett B. Hutchinson, *Professor*

John D. Smith, *Associate Professor*

Villa M. Mitchell, *Associate Professor*

The mission of the Department of Chemistry and Biochemistry is to provide a general knowledge of chemistry for the student desiring a liberal arts education. Chemistry offers to the liberal arts student an appreciation and understanding of great discoveries, laws and theories that relate to the composition of matter. It also offers insight into and training in the type of reasoning which brought about these discoveries. For chemistry and biochemistry majors, the department introduces students to the five major divisions of chemistry (analytical, biochemistry, inorganic, organic and physical) and helps prepare students to enter the chemical profession and medically related professional schools. The Department of Chemistry and Biochemistry offers students an opportunity to be involved in scientific research using modern instrumentation and methods. The department provides opportunities for students to analyze their research results and make presentations within the university community and to the larger scientific community, thus providing training in the logical analysis and interpretation of research results and the written and oral communication of these results.

Distinctives of the Chemistry and Biochemistry Department

The Department of Chemistry and Biochemistry at Lipscomb University is an approved chemistry program by the Committee on Professional Training of the American Chemical Society. The professional chemistry major and the biochemistry major with an emphasis in chemistry commonly lead to certification from the American Chemical Society. The biochemistry major-biological emphasis is designed to meet the guidelines of the Education and Professional Development Committee of the American Society for Biochemistry and Molecular Biology for programs in biochemistry and molecular biology. Our department provides the chemistry background necessary for all medically-related studies as well as for graduate study in chemistry and related fields. Departmental alumni have gone to graduate school at Yale University, Stanford University, the Ohio State University, Georgia Tech, the University of North Carolina and Texas A&M University, and a number have graduated from Vanderbilt University. Lipscomb biochemistry majors have attended Duke, Vanderbilt, Ohio State, Penn State, the University of Kentucky, the University of Louisville, the University of Tennessee-Memphis, the University of Alabama-Birmingham, Meharry and East Tennessee State University medical schools. Department alumni have become recognized leaders in their various fields, including chemistry professors, physicians, pharmacists and industrial chemists.

The department now has virtually all the modern major instruments which would be available to undergraduates at any university in the country. Lipscomb chemistry students get "hands-on" experience with ultraviolet-visible spectrophotometers, an infra-red spectrometer, a nuclear magnetic resonance spectrometer, a gas chromatograph-mass spectrometer, a liquid chromatograph-mass spectrometer,

two high performance liquid chromatographs, a capillary electrophoresis instrument, an inductively coupled plasma emission spectrometer, a thermogravimetric analyzer, a differential scanning calorimeter, and more instruments are being added each year.

Applied Chemistry or Applied Biochemistry Major

These majors are oriented towards pre-professional students and other students who do not plan to do graduate work in chemistry. The programs consist of a core program in chemistry along with studies in special interest areas. These degrees provide a background for students entering medically-related professions such as medicine, osteopathic medicine, podiatric medicine, dentistry, chiropractic, pharmacy and others.

Students receiving these degrees also commonly enter graduate schools in chemistry-related areas or industry.

Off-Campus Study Opportunities

Chemistry students may participate in several study abroad options offered by Lipscomb University, including study offered through the Council for Christian Colleges and Universities. We strongly encourage our students to participate in summer undergraduate research opportunities offered at many of the major research universities in the United States. Stipends are offered through the National Science Foundation and other sources.

Professional Organizations

Students are encouraged to be members of the Lipscomb University chapter of the Student Affiliates of the American Chemical Society.



Career Opportunities

Professional Chemistry Majors (B.A. or B.S. degree)

Attend graduate school in chemistry at the master's or doctoral levels

Find employment in:

- Chemical industry
- Government agencies
- Private institutions

Biochemistry Major (B.A. or B.S. degree)

- Attend graduate school in biochemistry and related subject areas
- Find employment in industry or with government agencies
- Pursue medical studies
- Attend medically-related professional schools (such as medical schools, osteopathic medical schools, and dental schools)

Applied Chemistry or Applied Biochemistry Major (B.A. or B.S. degree)

Find employment in:

- Environmental sciences
- Health professions administration
- Chemical engineering (additional mathematics required)
- Private industry or governmental agencies
- Attend medically-related professional schools

Requirements for Majors

Note: All chemistry majors must take the Major Field Achievement Test in chemistry prior to graduation. This test is a part of Chemistry 4921.

Biochemistry Major —

Emphasis in Chemistry

B.A. or B.S. degree program

Total hours required— 70

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 2314, 3114, 3124, 3313, 3321, 3414, 4613, 4911, 4921

Computer Science 1041

Mathematics 1314, 2314, 2324

Physics 2414, 2424

Eight hours of biology courses that would apply to a biology major. This course will be based on the individual's needs and interests.

Note: Those seeking American Chemical Society certification must also complete Chemistry 3613 and 3621.

Emphasis in Biology

B.A. or B.S. degree program

Total hours required— 71

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 2314, 3313, 3321, 3414, 3713, 4613, 4911, 4921

Computer Science 1041

Mathematics 1314, 2314

Physics 2414, 2424

Biology 1134, 2114, 3114, 4013, plus one three or four hour course that would apply to a biology major. This course will be based on the individual's needs and interests.

Biochemistry Major-Applied

B.A. or B.S. degree program

Total hours required— 72

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 2314, 3313, 3321, 3414, 3713, 4911, 4921

Computer Science 1041

Mathematics 1113, 1123, 1314

Physics 1214, 1224

Eighteen hours selected from courses that count toward a biology major. The following courses are highly recommended:

Biology 1134, 2114, 3114, 3214, 3514, 3524, 4013, 4213

Chemistry 4613 may be taken as an elective.

Emphasis in Pre-Pharmacy

B.A. or B.S. degree program

Total hours required— 87 (47-48 undergraduate hours)

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 3313, 4911

Six hours selected from the following:

Chemistry 2314, 3414, 3713

Mathematics 1314

Physics 1214, 1224

Biology 1134, 2114, 3114

The first year curriculum from Lipscomb's College of Pharmacy (currently 39 hours)

Note: Only students who satisfactorily complete the first year of pharmacy school at Lipscomb University's College of Pharmacy are eligible to complete this major.

Chemistry Major- Applied

B.A. or B.S. degree program

Total hours required— 62-70

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113,
2123, 2211, 2221, 2314, 3414, 3613, 3621, 3713,
4911, 4921

Computer Science 1041

Mathematics 1113, 1123, 1314

Physics 1214, 1224

In addition, the student must select an emphasis in one of the subjects below.

These subjects constitute the student's minor.

Emphasis in Business: Accounting 2503, 2513;

Economics 2503, 2513; and six hours selected from Finance 3503, Management 3503, Marketing 3503

Emphasis in Computer Science: See department chair

Emphasis in Environmental Chemistry: Chemistry 3214, 3333; Biology 1013, 1144 (or BY 4044); ESS 4213; and three hours chosen from the following: Chemistry 411V, 4313, 4221, or Chemistry 3313.

Emphasis in Green Chemistry: Chemistry 3214, 3313, 3321, 3333, 3341, 4221; Biology 1013, ESS 4213, and one course chosen from Chemistry 4213, 4413, or 411V.

Emphasis in Mathematics: Mathematics 2314 and two courses selected from Mathematics 2103, 2324, 3123, 3133, 3213

Emphasis in other academic areas: The chemistry department will consider proposals from students who wish to emphasize areas other than those listed above. This will be done in consultation with the academic chair. The area selected must be one which will compliment the student's academic progress and professional goals.

Note: This program is designed for students who do not plan to do graduate work in chemistry.

Chemistry Major-Professional

B.A. or B.S. degree program

Total hours required— 66

Specific courses required—

Chemistry 1113, 1123, 1211, 1221, 2113, 2123,
2211, 2221, 2314, 3114, 3124, 3414, 3613, 3621,
4221, 4911, 4921 and any two of 4213, 4313,
4413, 4513

Computer Science 1041

Mathematics 1314, 2314, 2324

Physics 2414, 2424

German is highly recommended as the foreign language for the B.A. option.

Note: Those seeking American Chemical Society CPT certification must also complete Chemistry 3313.

Chemistry Teaching Major (General Science—Chemistry)

B.A. or B.S. degree program

- I. General education required of secondary and K-12 teacher education students.* See the Department of Education section.
- II. Professional education
- III. Specialized professional education
Chemistry 3053
- IV. Subject matter specialization
Biology 1003, 3712, and 2213
Chemistry 1113, 1123, 1211, 1221, 2113, 2123,
2211, 2221, 2314, 3414, 3613, 3713, 4911, 4921
Computer Science 1041
Mathematics 1113, 1123
Physics 1214, 1224

*Omit Chemistry 1013, Mathematics 1043 and Physics 1013. Biology 1003 is included in specialized subject matter.

Note: Students seeking a teaching endorsement in chemistry may do so by taking Chemistry 1113, 1123, 1211, 1221, 2113, 2123, 2211, 2221, 3051 and any one of 2314, 3613 or 3713.

Note: Chemistry teaching majors have a built-in minor in education and are not required to take another minor.

Requirements for Minor

Chemistry Minor

Total hours required— 18

Specific courses required— None

Eighteen hours of chemistry courses numbered 1113 and above

Note: Students seeking teaching endorsement in chemistry should consult the chair of the department of chemistry.

Course Descriptions

Chemistry (CM)

1013

Introduction to Chemistry (3) F, SP, SU

An introduction to chemistry, intended for non-science majors, which emphasizes the structure of matter and its chemical consequences. Some topics included are chemical change, toxic substances in the environment, consumer chemistry, applications of organic and basic structures in biochemistry. Lecture, 2 hours; laboratory, 2 hours.

1023

Introduction to Chemistry—Organic (3) SP

A survey of the types of organic compounds and their reactions—designed to meet the needs of family and consumer science or dietetics majors. Special emphasis is given to consumer chemistry, including such topics as food and textile chemistry. Prerequisite: Chemistry 1013. Lecture, 2 hours; laboratory, 2 hours.

- 1024 Chemistry for Health Sciences (4) F**
An introduction to chemistry that covers the general structure of matter and types of bonding. Special emphasis is given to the different classes of organic compounds and their reactions. This course is designed to meet the needs of nursing majors. Special emphasis is given to application of organic chemistry to medically related topics. Lecture, 3 hours; laboratory, 2 hours.
- 1034 Introduction to Chemistry—Biochemistry (4) F**
An elementary level course dealing with the fundamental concepts of biochemistry. Special attention is given to chemical composition of the three major classes of foodstuffs—carbohydrates, lipids and proteins, and the interrelationships of the various metabolic pathways. Prerequisite: Chemistry 1023 or Chemistry 1024. Lecture, 3 hours; laboratory, 2 hours.
- 1113, 1123 General Chemistry Lectures I, II (3, 3)
1113-F, SP, SU; 1123-F, SP, SU**
This sequence of courses is designed to meet the needs of chemistry, biology, pre-engineering, premedical, pre-dental and other science-oriented students. Subjects covered include symbols, formulas, equations, stoichiometry, structure of the atom, chemical bonding, descriptive inorganic chemistry, gas laws, periodic law, liquid and solid states, solutions, colloids, acids, bases and salts kinetics, equilibrium, ionic equilibrium, solubility product, thermodynamics, electrochemistry, oxidation-reduction, nuclear chemistry, coordination compounds and introduction to organic chemistry. Prerequisite: Eligibility for enrollment in or credit for Mathematics 1113 or higher. Chemistry 1123 requires completion of Chemistry 1113 with a grade of “C” or higher. Corequisite, respectively: Chemistry 1211, 1221. Lecture, 3 hours.
- 1144 General Chemistry for Engineering Students (4) F Offered on demand**
This course is designed to meet the needs of engineering students who need one semester of general chemistry with laboratory. Subjects covered in the lecture and laboratory are developed based in part on the topics on the Fundamentals for Engineering Exam. These subjects include atomic structure, periodic table, chemical bonding, oxidation numbers, moles and molecular weight, radioactive decay, gases and ideal gas laws, colligative properties, thermochemistry, equilibrium, concentration and properties of solutions, kinetics, organic chemistry, electrochemistry and fuel cells, modern materials including polymers, and different types of reactions. Applications of these topics are emphasized in the laboratory. Prerequisite: Eligibility for enrollment in or credit for Mathematics 1113. This course is not equivalent to Chemistry 1113 or Chemistry 1123 and will not substitute for either. Lecture, 3 hours; laboratory, 3 hours.
- 1211, 1221 General Chemistry Laboratories I, II (1, 1)
1211-F, SP, SU; 1221-F, SP, SU**
These two courses are designed to complement general chemistry lectures, Chemistry 1113 and Chemistry 1123 respectively. Each laboratory must be taken with its corresponding lecture course. The laboratory experiments serve to introduce students to such topics as density, specific heat, chemical composition, chemical change, spectrophotometric analysis, single replacement reactions, molecular weight determination, gas laws, solubility of salts, calorimetry, titrations, pH indicators, reaction rates, inorganic preparations, and inorganic qualitative analysis. Corequisites: Chemistry 1113 and 1123. Laboratory, 3 hours.
- 2113, 2123 Organic Chemistry Lectures I, II (3, 3)
2113-F, SU; 2123-SP, SU**
Both aliphatic and aromatic compounds are studied. These courses are presented in such a way as to require an understanding of principles and an application of those principles to solve problems rather than just to memorize the isomerism, reactions, reaction mechanisms, stereochemistry and applications of spectroscopic methods. These courses are designed to fit the needs of the chemistry major, the biology major and the premedical student. These courses complement the organic laboratory courses, Chemistry 2211 and 2221, and must be taken in sequence. Prerequisites: Chemistry 1123 and 1221. Corequisite, respectively: Chemistry 2211 and 2221. Lecture, 3 hours each.
- 2211, 2221 Organic Chemistry Laboratories I, II (1, 1)
2211-F, SU; 2221-SP, SU**
These laboratory courses are designed to complement the organic chemistry lecture courses 2113 and 2123. These courses introduce the student to basic laboratory skills and techniques often used by organic chemists. The laboratory work includes separation and purification techniques, synthesis of different types of classes of organic compounds, and organic qualitative analysis properties of various spectroscopic methods. Courses must be taken in sequence. Prerequisite: Chemistry 1123 and 1221. Corequisite, respectively: Chemistry 2113 and 2123. Laboratory, 4 hours each.
- 2314 Analytical Chemistry (4) SP**
Theory and practice in elementary gravimetric and volumetric analyses are presented. Laboratory experiences include these areas: precipitation, acid-base, oxidation-reduction and complex ions. Chemical equilibrium and the treatment of analytical data are emphasized. Prerequisites: Chemistry 1123 and Computer Science 1041. Lecture, 3 hours; laboratory, 4 hours.

- 2401 Clinical Laboratory Observation (1)
Offered on demand**
A one-hour course designed for pre-medical and all related majors to introduce them to clinical and/or clinical laboratory work. The student spends approximately 50 hours in observing or performing assigned tasks in a clinic, hospital or clinical laboratory. Specific requirements vary depending on the field of study chosen by the student. A written report is required. Prerequisites: Chemistry 1123 and 1221; Chemistry 2123 and 2221 recommended.
- 3053 Methods of Teaching Chemistry (3) F, SP**
To be taken during the professional semester. This is a materials and methods course in the teaching of chemistry.
- 3114, 3124 Physical Chemistry I, II (4, 4) 3114-F; 3124-SP
Offered odd-numbered years**
This sequence of courses provides a general survey of chemical thermodynamics, thermochemistry, electrochemistry, chemical kinetics, quantum mechanics, spectroscopy, phase equilibria, and the theories of gases, liquids, crystals and solutions. Prerequisites: Chemistry 1123, Mathematics 2324, Physics 2424 and Computer Science 1041. Lecture, 3 hours; laboratory, 4 hours.
- 3214 Environmental Chemistry (4) F
Offered odd-numbered years**
A study of the chemistry of the environment, including: chemical cycles, aquatic chemistry, atmospheric chemistry, soil and geochemistry, water pollution, gaseous inorganic and organic air pollutants, hazardous wastes, and environmental chemical analysis. Laboratory experience is field oriented and makes use of HPLC (high performance liquid chromatography), GC-MS (gas chromatography and mass spectrometry), and AA (atomic absorption spectrometry) to examine common environmental pollutants. Prerequisites: Chemistry 1023, 1113, and 1123. Lecture, 3 hours; laboratory, 3 hours. This course may satisfy the SALT Tier II requirement.
- 3313 Biochemistry (3) F, SU
Offered in the summer on demand**
A study of the chemical composition of living organisms. Chemical and physical properties, molecular structure and biological functions of biomolecules are emphasized. A study of intermediary metabolism is begun. Prerequisites: Chemistry 2123 and 2221. Recommended: Chemistry 4911. Lecture, 3 hours.
- 3321 Biochemistry Lab (1) SP**
The biochemistry laboratory course includes the determination of protein concentration, enzyme kinetics, SDS-polyacrylamide gel electrophoresis, isoelectric focusing and protein isolation by high speed centrifugation and various chromatographic techniques. Additionally, the manipulation of DNA including the transformation of E.coli with a plasmid containing a foreign gene, expression of that gene, isolation of the plasmid from the bacteria and restriction analysis of the plasmid on agarose gels.
- 3333 Green Chemistry (3)
Offered on demand**
The student will understand aspects of analytical, biological, inorganic, organic and polymer chemistry from an environmental or green perspective. The student will understand and be able to implement the "Twelve Principles of Green Chemistry," as developed by Anastas and Warner, to aid one assessing the sustainability of a reaction or a process is. Prerequisites: Chemistry 2113 and Chemistry 2211 or Chemistry 3214.
- 3341 Green Chemistry Lab (3)
Offered on demand**
A laboratory course in green chemistry required of all applied chemistry majors with the concentration in green chemistry. The lab will emphasize training in the practical implementation of the Twelve Principles of Green Chemistry with a focus on synthesis and analysis, including practical use of less hazardous substitutes, safer design, safer solvents, energy efficiency, reduced derivatization, safe and inexpensive catalysts, degradation design and study, green analytical techniques and practical monitoring. Specific projects may vary as green chemistry is a new and rapidly changing field of study. Prerequisites: Chemistry 2221. Corequisites: Chemistry 3333.
- 3414 Instrumental Methods of Analysis (4) F**
A study of the theory and application of laboratory instrumentation. Methods studied include gas and liquid chromatography; capillary electrophoresis; visible, ultraviolet, infrared, and raman spectrophotometry; atomic emission and absorption spectroscopy; nuclear magnetic resonance; and mass spectroscopy. Prerequisites: Chemistry 1123 and Chemistry 2123 or 1023. Lecture, 3 hours; laboratory, 4 hours. Chemistry 3414 may satisfy the SALT Tier II requirement.
- 3613 Inorganic Chemistry (3) SP
Offered on demand**
A study of the descriptive chemistry of the elements. Theories of atomic and compound structure and bonding, including molecular orbital theory are presented. Special emphasis is given to coordination compounds, including their structure, bonding, reactivity, and spectroscopic properties. Prerequisite: Chemistry 1123. Lecture, 3 hours.

- 3621 Inorganic Chemistry Laboratory (1) SP Offered on demand**
The inorganic laboratory course includes the synthesis of selected compounds, from main group inorganic compounds to transition metal based coordination compounds and organometallics; characterization of inorganic compounds by IR, UV-Vis, and NMR spectroscopy and MS; study of non-aqueous solvents, magnetochemistry, and ligand exchange; and bioinorganic chemistry, including the modeling of metalloenzymes. Corequisite, Chemistry 3613. Laboratory, 3 hours.
- 3713 Introduction to Physical Chemistry (3) F**
A study of the physical properties of matter with an emphasis on problem solving from a predominantly non-calculus basis. Topics covered include properties of gases, liquids and solids, kinetic molecular theory, chemical thermodynamics, chemical equilibrium, solutions of non-electrolytes, solutions of electrolytes, electrochemistry, bonding and spectroscopy. Prerequisites: Chemistry 1123, Physics 1224. Lecture, 3 hours.
- 411V Independent Study and Research (1, 2) F, SP, SU**
The student works closely with his/her research director in all aspects of a chemical research problem. The student is expected to make original contributions and present a paper to the chemistry faculty based on his/her findings. Acceptance of a paper by the research director is required.
- 4213 Advanced Inorganic Chemistry (3) F Offered on demand**
A detailed study of the theories of atomic structure and chemical bonding emphasizing VB and MO theory. The theoretical aspects of periodic trends, bonding and properties of coordination compounds and organometallic chemistry are presented. The mathematical basis of group theory with application to MO theory and spectroscopy is presented. Prerequisite: Chemistry 3124 and 3613. Lecture, 3 hours.
- 4221 Advanced Integrated Laboratory (1) SP Offered on demand**
A capstone laboratory course required of professional chemistry majors in their senior year. The lab will have an emphasis on projects involving synthesis of organic and inorganic compounds, analysis and physical property determination of the products and computational chemistry applied to the products. Specific projects depend on the interest of instructor and students. Prerequisite: Chemistry 3124. Laboratory, 4 hours.
- 4313 Advanced Analytical Chemistry (3) SP Offered on demand**
A study of the principles of operation of instruments and identification, quantification of unknown compounds using methods such as AA, GC, HPLC, GC/MS, IR and NMR. In-depth interpretation of NMR, IR and mass spectra will be included. Prerequisites: Chemistry 2314, 3124, 3414. Lecture, 3 hours.
- 4413 Advanced Organic Chemistry (3) Offered on demand**
A study of basic organic reactions and their mechanisms. Emphases may vary among such topics as bonding theory, molecular structure and properties, structural and electronic effects on reactivity, orbital symmetry rules, and method of determining reaction mechanism. Prerequisites: Chemistry 2123, 2221, 3124. Lecture, 3 hours.
- 4513 Advanced Physical Chemistry, Selected Topics (3) Offered on demand**
Selected topics based on current student and faculty interest are established prior to course offering. Suggested topics are thermodynamics, quantum mechanics, spectroscopy, statistical thermodynamics, and chemical applications of group theory and graph theory. Prerequisite: Chemistry 3124. Lecture, 3 hours.
- 4613 Advanced Biochemistry (3) SP**
A study of the chemical composition of living organisms. The study of intermediary metabolism is continued. Informational biomolecules are emphasized. Prerequisites: Chemistry 3313. Corequisite: Chemistry 3321. Lecture, 3 hours.
- 4911 Chemical Literature (1) F**
An introduction to selected chemical literature with an emphasis on methods for retrieving desired information about physical and biological properties or synthetic procedures for specific compounds as well as information on broad concepts or classes or compounds. The use of electronic information retrieval systems such as SciFinder and Science Direct is emphasized. Prerequisite: Chemistry 2123. Lecture, 1 hour.
- 4921 Chemical Seminar (1) SP**
A review of the major topics in the undergraduate chemistry curriculum featuring formal class presentations by departmental faculty and culminating in the major field exam followed by an independent library research project on a topic of the student's choice. A paper and oral presentation, featuring presentation software, will be made by each student to the class. Prerequisite: Chemistry 4911 and senior standing in Chemistry. Lecture, 1 hour.

Department of Mathematics

Carroll G. Wells, *Professor and Academic Chair*

Brandon Banes, *Assistant Professor*

John J. Beauchamp, *Professor*

Randy E. Bouldin, *Professor*

Gary C. Hall, *Professor*

Doy O. Hollman, *Professor*

Mark A. Miller, *Professor*

Amy W. Nelson, *Professor*

The mission of the Department of Mathematics is to teach courses with the intent of increasing literacy and competency in mathematics and providing the academic foundation for those who desire to be professional mathematicians, mathematics educators or to work in areas that require a strong mathematical background. There is a constant and growing demand for training in the mathematical sciences in our modern technological society. Students may select from a wide range of course offerings including courses designed for general education, for pre-professional studies (engineering, medicine, law and so forth), and for major programs. Both the B.A. and B.S. degrees are offered with either the regular major, applied major or the teaching major in mathematics.

Distinctives of the Mathematics Department

The department offers majors in mathematics, applied mathematics and mathematics education with countless opportunities in each major. Students graduating with the mathematics major are prepared to enter graduate studies in mathematics or to become a practicing mathematician. Recent graduates are now actuaries, statisticians or doctoral candidates at major graduate institutions such as Vanderbilt University and the University of Tennessee. Graduates with the mathematics education major are highly sought-after to be high school mathematics teachers. The applied mathematics major is used in conjunction with other science, business or engineering majors.

The department currently has a Math/Science Partnership Grant from the Tennessee State Department of Education to provide summer professional development institutes for area mathematics teachers. These institutes focus on innovative use of hands-on activities and technology in the teaching of mathematics.

During the past ten years, several of the mathematics department faculty have received some of the most prestigious awards given by Lipscomb University including: the Laine Travel Award, the Baker Award, and several awards for outstanding teaching and advising. One faculty member is vice president for colleges and universities for the Tennessee Mathematics Teachers' Association and another has been on the board of directors for the Southeastern Section of the Mathematical Association of America.

Students also have the opportunity for employment as tutors in the mathematics lab, participation in summer internships at local actuary firms, involvement in the mathematics club, directed research possibilities with faculty, and private tutoring opportunities.

Career Opportunities

- Graduate study or work in government and industry
- Operations research
- Statistics
- Computer science
- Quality control
- Actuary
- Teaching at the secondary school level

Requirements for Majors

Mathematics Major - Regular

B.A. or B.S. degree program

Total hours required— 39

Specific courses required—

Computer Science 1041

Mathematics 1314, 2103, 2314, 2324, 2903, 3123,

3133, 3213, 4113, 4213, 4992; and either 4303,

4903, or Engineering 3303

Enrollment and a passing grade in Mathematics

2000 are required for two semesters.

Note: Regular mathematics majors are encouraged to complete a minor or second major in another subject area.

Mathematics Major - Applied

B.A. or B.S. degree program

Total Hours required— 38

Specific courses required—

Mathematics 1314, 2314, 2324, 2103, 3123, 3133,

3213, 4303, 4992

Engineering 3303

Six hours of 3000-4000 level physics, engineering,

computer science, chemistry, approved science classes, or

approved business classes

Note: Applied mathematics majors must complete a minor or second major in a science, engineering, business, or other approved subject area.



Mathematics Teaching Major

B.A. or B.S. degree program

- I. General education required of secondary and K-12 teacher education students. See the Department of Education section.
- II. Professional education (See Department of Education section)
- III. Specialized professional education - Mathematics 4913
- IV. Subject matter specialization
 Computer Science 1041
 Mathematics 1141, 1314, 2103, 2314, 2324, 2903, 3123, 3213, 4023, 4113, 4153, 4913
 Enrollment and a passing grade in Mathematics 2000 are required for four semesters.

Note: Mathematics teaching majors have a built-in minor in education.

Requirements for Minors

Applied Mathematics Minor

Total hours required—18

Specific courses required—

Mathematics 1314, 2314, 2324, 3133

One course selected from:

Engineering 3303 or Mathematics 3123

Pure Mathematics Minor

Total hours required—17

Specific courses required—

Mathematics 1314, 2103, 2314

Two courses selected from:

Mathematics 2324, 2903, 3123, 3133, 3213, 4113, 4153, 4213, 4903

Course Descriptions

Mathematics (MA)

Note: Prerequisites for mathematics courses below are not suggestions. They are requirements for entrance into a course.

1020 Introductory Algebra (3 non-credit hours) F

A review of high school algebra that includes a review of real numbers, equations, inequalities, problem solving, graphing, polynomials, factoring, and systems of equations. Students who score below 15 on the ACT or 360 on the SAT in math will be required to take this course. This is a developmental non-credit course. See section on developmental non-credit courses.

1030 Intermediate Algebra (3 non-credit hours) F, SP, SU

A review of high school algebra that includes factoring, inequalities and problem solving, rational expressions, functions, exponents and radicals, and quadratic equations and functions. This is a developmental non-credit course. See section on developmental non-credit courses. Prerequisite: At least a 15 ACT (or 360 SAT) math score or Mathematics 1020 with a minimum grade of "C."

- 1043 Survey of the Fundamentals of Mathematics (3) F, SP, SU**
Mathematics 1043 cannot be used as a prerequisite or as a substitute for college algebra. Topics covered are problem solving, logic, numeration systems, calculators, basic concepts of number theory and algebra, sequences, series, and finance mathematics. Required of most students who plan to teach. See education section of this catalog. This course does not meet the prerequisite requirement for College Algebra. Prerequisite: At least a 19 ACT (or 460 SAT) math score or Mathematics 1030 with a minimum grade of "C."
- 1053 Survey of Algebra and Statistics (3) F, SP, SU**
Topics from algebra include functions, graphs, systems of equations and inequalities, matrices, and linear programming. Topics from statistics include probability, sampling techniques, tables and graphs used to represent data, descriptive statistics, and probability distributions including the normal distribution. Required of all K-8 education students. This course does not satisfy specific program requirements of College Algebra (Mathematics 1113) or Elementary Statistics (Mathematics 2183). (It is recommended that students with a grade of "C" or higher in Mathematics 1113 complete Mathematics 2183 to fulfill state knowledge and skills requirements in these two concept areas.) This course does not meet the prerequisite requirement for College Algebra. Prerequisite: At least a 19 ACT (or 460 SAT) math score or Mathematics 1030 with a minimum grade of "C."
- 1113 College Algebra (3) F, SP, SU**
Functions and graphs; exponential and logarithmic functions; systems of equations and inequalities; sequences, series, and probability. Prerequisites: two years of high school algebra and at least a 21 ACT (or 500 SAT) math score, or Mathematics 1030 with a minimum grade of "C."
- 1123 Trigonometry and Analytic Geometry (3) F, SP, SU**
The trigonometric and circular functions; trigonometric analysis; analytical geometry of the plane and three space including the conic sections, rotation of axes, polar coordinates, polar equations of conics, plane curves and parametric equations. Prerequisites: two years of high school algebra and at least a 26 ACT (or 590 SAT) math score, or Mathematics 1113 with a minimum grade of "C."
- 1135 College Precalculus (5) F**
Functions and graphs; exponential and logarithmic functions; systems of equations and inequalities; sequences and series; trigonometric and circular functions; trigonometric analysis. Prerequisites: two years of high school algebra and at least 24 ACT (or 550 SAT).
- 1141 Problem Solving (1) SP**
This course will cover various problem-solving techniques using classical and non-traditional methods. The students will work various problems using these techniques. Some of the methods are: drawings, systematic lists, elimination, matrix logic, patterns, guess and check, physical representations, Venn diagrams, units and algebra. Prerequisite: Mathematics 1043 or higher.
- 1314 Calculus I (4) F, SP, SU**
Functions and limits, differentiation of polynomial and trigonometric functions, applications of the derivative, antidifferentiation, the definite integral, transcendental functions, and numerical methods. Prerequisite: Mathematics 1123 with a minimum grade of "C," or Mathematics 1135 with a minimum grade of "C"; or a semester of high school trigonometry and at least a 26 ACT (or 590 SAT) math score.
- 2000 Math Lab Tutoring (0) F, SP**
Tutoring in the university's math lab two hours per week. Payment will be provided, but the number of tutors allowed each semester will be limited. Required of all Math teaching majors for a minimum of four semesters. Required of all regular math majors for a minimum of two semesters. Prerequisite: Mathematics 2103.
- 2053 Survey of Calculus (3) F**
This course includes topics from integral and differential calculus that involve polynomials, exponential and logarithmic functions. No trigonometric functions are used. The course does not count toward a math major or minor nor toward the add-on secondary teaching endorsements in mathematics. The course will not serve as a prerequisite for Mathematics 2314. Prerequisite: Mathematics 1113 with a grade of "C" or better or at least a 23 ACT (or 550 SAT) math score.
- 2103 Discrete Mathematics (3) F, SP, SU**
Introduction to the mathematics of computer science, including functions, relations, trees, counting, sets, logic and computability. Prerequisite: Mathematics 1113 with a minimum grade of "C" or at least a 23 ACT (or 550 SAT) math score.
- 2183 Elementary Statistics (3) F, SP, SU**
Data collection and presentation; measures of central tendency and variability; discrete and continuous probability distributions; confidence intervals; hypothesis testing; analysis of variance; regression. Prerequisite: Mathematics 1113 with a minimum grade of "C," or at least a 23 ACT (or 505 SAT) math score. Computer Science 1041 strongly recommended.
- 2314 Calculus II (4) F, SP, SU**
Applications of integration, techniques of integration, indeterminate forms, improper integrals, numerical methods, conics, polar coordinates, infinite series and parametric equations. Prerequisite: Mathematics 1314 with a minimum grade of "C" or at least a 3 on the AP exam.
- 2324 Calculus III (4) F, SP, SU**
Plane and space vectors, multivariable differentiation and integration, directional derivatives, gradients, extremes and vector calculus (including line integrals, Green's theorem, surface integrals, Gauss' theorem, and Stokes' theorem). Prerequisite: Mathematics 2314 with a minimum grade of "C" or a 5 on the Advanced Placement Calculus BC exam.
- 2903 Logic, Proof, and Mathematical Modeling (3) SP**
Introduction to higher mathematical thinking, including the study of sets, basic logic, proof techniques and mathematical modeling. Prerequisite: Mathematics 1314 with a minimum grade of "C."

3053 Survey of Geometry (3) F, SP, SU
Both formal and informal methods are used to examine the basic concepts of Euclidean geometry (angles, triangles, circles, parallel lines, polygons, and right-triangle trigonometry). Required of all students seeking K-8 certification. It does not satisfy mathematics major or minor requirements or secondary certification requirements. Prerequisites: Mathematics 1043 with a minimum grade of “C” and either Mathematics 1053 or 1113 with a minimum grade of “C.”

3123 Mathematical Theory of Statistics (3) F
Probability theory; binomial, hypergeometric, Poisson, normal, gamma, t, F, chi square, and bivariate normal distributions; estimation and hypothesis testing theory with applications to means, proportions, variances, and correlation; computer applications using the Minitab statistical program. Two lecture hours plus two lab/recitation hours per week. Prerequisite: Mathematics 2314 with a minimum grade of “C.”

3133 Differential Equations (3) SP
The solution of differential equations of first order and first degree (with applications); linear differential equations of higher order (with applications); Laplace transform methods; solutions by series. Prerequisite: Mathematics 2314 with a minimum grade of “C.”

3213 Linear Algebra (3) SP
Vector spaces; matrices; linear transformations; determinants; systems of equations; inner products; eigenvalues and eigenvectors; applications to differential equations. Prerequisite: Mathematics 2103 or 2903 with a minimum grade of “C.”

4023 History of Mathematics (3) SP
Offered even-numbered years
Survey of the historical developments and achievements in mathematics from ancient civilizations to the modern era with emphasis on its integral role in the development of civilization. Required of all mathematics teaching majors. Writing assignments are required. Prerequisite: Mathematics 2314 or consent of instructor.

4113 Abstract Algebra (3) F Offered even-numbered years
The integers; groups; rings; integral domains; fields; polynomials. Prerequisite: Mathematics 3213 with a minimum grade of “C.”

4153 Introduction to Higher Geometry (3) F
Offered odd-numbered years
Advanced Euclidean Geometry. Includes nine-point circle, Ceva’s Theorem, Euler Line, Menelaus’ Theorem, congruence, and similarity. Prerequisite: Mathematics 2903 with a minimum grade of “C.”

4213 Advanced Calculus (3) F
Offered even-numbered years
The real numbers; calculus of functions of one variable; sequences and series of functions. Prerequisites: Mathematics 2324 and 2903 with minimum grade of “C.”



4303 Numerical Analysis (3) SP
Topics include: numerical differentiation and integration, initial-value problems for ordinary differential equations, direct methods for solving linear systems, iterative techniques in matrix algebra, and approximation of eigenvalues. Computer solution of problems required. Prerequisites: Mathematics 2324, 3133 with minimum grade of “C.”

480V Independent Study (1, 2, or 3)
May be taken only with the approval of the mathematics faculty. Offered only to math majors who want to study a math course not in the catalog. Prerequisite: junior standing.

4903 Special Topics in Mathematics (3) SP
Offered on demand
Selected topics from the field of mathematics are offered. The course may be either lecture or proof-oriented depending upon the topic selected. Represents an in-depth approach to a specific area of mathematics. May be repeated for credit. Prerequisite: Mathematics 2903 with minimum grade of “C.”

4913 Methods of Teaching Secondary Mathematics (3) F
The course will include experience in methods of teaching mathematics in the secondary school, exposure to current trends, issues and philosophy of mathematics education. A review of undergraduate mathematics including practice in problem solving will be included. The course is to be taken during the semester preceding the professional semester. Prerequisites: Completion of all requirements for the math education major except possibly MA 4113 or 4153 and enrollment in the last semester prior to the professional semester.

4992 Senior Seminar (2) SP
A review of undergraduate mathematics including practice in problem solving.

Department of Physics

L. Alan Bradshaw, *Professor and Academic Chair*

C. Randall Bybee, *Professor*

The influence of science and technology touches almost everyone every day in every part of the world. The Department of Physics is dedicated to providing a variety of engineering and physics curricula for students who are interested in pursuing scientific and technical professions.

The specific curricula available in the Department of Physics are the major programs in biomedical physics, physics and physics teaching, and the minor programs in physics.

Distinctives of the Physics Department

Research opportunities abound for undergraduates from many different academic areas working with faculty in the department of physics. Department faculty have expertise in condensed matter physics, nuclear and particle physics and biomedical physics. Recent graduates of the department have gone on to prestigious graduate programs at Harvard, Columbia and Vanderbilt, as well as to lucrative employment opportunities.

L. Alan Bradshaw, department chair, was awarded the Nightingale Prize for the best paper published in Medical & Biological Engineering & Computing in 2005. Bradshaw maintains an active research program at Vanderbilt University investigating gastrointestinal biomagnetic fields that has also involved numerous Lipscomb undergraduates.

The Department of Physics utilizes three dedicated laboratories for instruction in the McFarland Hall of Science, as well as a machine shop, electronics shop and x-ray laboratory. In addition, the department shares access to the computer classrooms in McFarland, which provide several stations for special applications.

Requirements for Majors

Biomedical Physics Major

B.S. degree program

Total hours required— 90

Specific courses required—

Biology 1134, 2114, 3514, 3524

Chemistry 1113, 1211, 1123, 1221, 2113, 2123, 2211, 2221, 3313

Computer Science 1041

Electrical and Computer Engineering 2214

Engineering 3303

Mathematics 1314, 2314, 2324, 3133

Physics 2414, 2424, 2434, 3303, 3403 3703, 3903, 3913, 4111, 4313, 4991

Note: The requirements for an applied mathematics minor and a chemistry minor are automatically satisfied.

Physics Major

B.A. or B.S. degree program

Total hours required— 68

Specific courses required—

Chemistry 1113, 1123, 1211, 1221

Computer Science 1041, 1122

Electrical and Computer Engineering 2214

Engineering 3303

Mathematics 1314, 2314, 2324, 3133

Physics 2414, 2424, 2434, 3303, 3403, 3503, 3703, 4111, 4121, 4313, 4323, 4991

Note: The minor requirement in applied mathematics is automatically satisfied.

Note: Mathematics 1314, Calculus I, must be taken during the fall semester of the freshman year in order to enroll in Physics 2414 in the spring semester. Otherwise, completion of the program may require more than eight semesters. Students who are not eligible to begin the calculus sequence should consider enrolling in Mathematics 1123 in the summer session.



Physics Teaching Major

B.A. or B.S. degree program

- I. General education required of secondary and K-12 teacher education students.* See the Department of Education section.
- II. Professional education
 - A. Core professional education
 - B. Specialized professional education
Physics 3053
- III. Subject matter specialization
 - Biology 1003**, 3712
 - Chemistry 1113, 1123, 1211, 1221
 - Electrical and Computer Engineering 2214
 - Mathematics 1113 (or proficiency), 1123 (or proficiency), 1314 (required), 2314 (required)
 - Physics 2414, 2424, 2434, 4111 and six hours selected from Physics 3303, 3403, 3603, 3703

* Note: Omit Chemistry 1013 and Physics 1013. Biology 1003 is included in specialization subject matter.

** Biology 1134 or 1144 may be substituted for Biology 1003.

Requirements for Minor

Physics Minor

Total hours required—18

Specific courses required—None

Eighteen hours chosen from departmental offerings in physics with approval of the academic chair including at least 6 hours in physics courses numbered above 3000.

Biomedical Physics Minor

Total hours required—18

Specific courses required—

PH 1214 or 2414, PH 1224 or 2424, BY 2114, PH 3903, PH 3913

Course Descriptions

Physics (PH)

- 1003 Fundamentals of Astronomy (3) SU**
Descriptive astronomy. The solar system, stars, galaxies. Prerequisite: At least 19 ACT or 460 SAT mathematics score or Mathematics 1020 with minimum grade of “C.” Lecture, 2 hours; laboratory, 3 hours.
- 1013 Fundamentals of Physics (3) F, SP, SU**
Mechanics, heat, electricity, atomic and nuclear physics. Prerequisite: At least 19 ACT or 460 SAT mathematics score or Mathematics 1020 with minimum grade of “C.” Lecture, 2 hours; laboratory, 3 hours.
- 111V Special Topics in Physics (1-3)**
Offered on demand
This course will concentrate on one or more topics from the field of physics. The topics will depend upon current interests of students and staff. While the presentation will be at an elementary level, an attempt will be made to cover the topic in depth and to establish connections to other branches of science and human affairs.
- 1214, 1224 Elementary College Physics I, II (4, 4)**
1214-F; 1224-SP, SU
Offered on demand
A non-calculus based introduction to physics, mechanics, fluids, heat and thermodynamics, electricity and magnetism, wave motion, sound, light, and atomic, and nuclear physics. Courses must be taken in sequence. Prerequisite: Mathematics 1123 with a minimum grade of “C.” Lecture, 3 hours; laboratory, 3 hours.
- 2414 General Physics I (4) SP, SU**
A calculus based introduction to general physics and its applications. Mechanics, heat and sound. Prerequisite: Mathematics 1314 with a minimum grade of “C.” Lecture, 3 hours; laboratory, 3 hours.

2424	<p>General Physics II (4) F A calculus based introduction to physics and its applications. Electricity and magnetism, optics modern physics. Prerequisites: Mathematics 2314 and Physics 2414 with a minimum grade of "C." Lecture, 3 hours; laboratory, 3 hours.</p>	3903	<p>Introduction to Biomedical Physics (3) F Historical perspectives and the field of biomedical physics; overview of anatomy and physiology; basic principles of bioelectric phenomena; biomechanics and biofluidmechanics; sound and hearing; vision; radiation and imaging. Prerequisite: consent of instructor.</p>
2434	<p>Structure of Matter (4) SP Topics related to the modern physical theory of matter: experiment and theory related to quantum phenomena, relativity, and atomic and nuclear structure. Emphasis on condensed matter and material science appropriate for engineering curricula. Prerequisite: Physics 2424. Lecture, 3 hours; laboratory, 3 hours.</p>	3913	<p>Biomedical Physics Research Seminar (3) SP A review of important research papers and current innovations in biomedical physics. Prerequisite: consent of instructor.</p>
3053	<p>Methods of Teaching Physics (3) Offered on demand Designed to acquaint education majors with techniques, demonstration equipment and audio-visual aids for use in teaching physics. To be taken during professional semester.</p>	395V	<p>Special Topics (1, 2, 3, or 4) Offered on demand Topics from physics and related fields (biophysics, cosmology, etc.) in either lecture- or laboratory oriented format, depending on the specific topic selected. Course may be repeated for credit. Prerequisite: consent of instructor. Offered on demand.</p>
3303	<p>Mechanics (3) F An introduction to classical mechanics with the use of vector calculus. Particle kinematics and dynamics, free and forced harmonic motion, conservative and central forces, angular momentum, introduction to the Lagrange and Hamilton formulations. Prerequisite: Physics 2424. Corequisite: Mathematics 3133. Lecture, 3 hours.</p>	4111, 4121	<p>Advanced Lab I, II (1, 1) F, SP Significant experiments chosen from electricity and magnetism, optics, atomic and nuclear physics. Attention is given to laboratory techniques and data analysis. Prerequisite: 6 hours of upper division physics. Laboratory, 3 hours.</p>
3403	<p>Electromagnetic Fields (3) F A study of electric and magnetic fields and their interactions with conductors and dielectric media and Maxwell's equations. Prerequisites: Physics 2424, Mathematics 2324. Lecture, 3 hours. Same as Electrical and Computer Engineering 3403.</p>	4313	<p>Quantum Theory (3) F Introduction to quantum physics of particles at the atomic and nuclear level. The Schrodinger equation, the uncertainty principle, angular momentum and spin. Prerequisite: Physics 2434, Mathematics 2324. Lecture, 3 hours.</p>
3503	<p>Electromagnetic Fields II (3) SP A continuation of PH 3403 to cover topics in electromagnetic radiation, waveguides, transmission lines, antennas, radiation from charged particles and relativity in electromagnetism. Prerequisite: PH 3403. Lecture, 3 hours.</p>	4323	<p>Atomic and Nuclear Structure (3) SP Quantum theory applied to molecules, the hydrogen atom, many-electron atoms and nuclei. Nuclear models and structure, nuclear decay, nuclear reactions, and the Standard Model of electromagnetic and nuclear interactions. Prerequisite: Physics 4313. Lecture, 3 hours.</p>
3603	<p>Optics (3) F Offered on demand Geometrical and physical optics. Image formation, thick lenses, lens aberrations. Electromagnetic wave theory, interference, diffraction, dispersion. Interaction of light with matter. Prerequisite: Physics 2424. Lecture, 3 hours.</p>	491V	<p>Independent Study (1, 2, 3) Offered on demand Independent study or research by the student on a problem of special interest. Prerequisite: Consent of instructor.</p>
3703	<p>Thermal Physics (3) F Development of the laws of thermodynamics using statistical mechanics including thermodynamic potentials and applications of statistical mechanics. Prerequisites: Chemistry 1113, 1211, Mathematics 2324, Physics 2414. Lecture, 3 hours. May be substituted with Mechanical Engineering 3703.</p>	4991	<p>Senior Seminar (1) SP Required of all senior majors in the department. Overview of major field. Special project or research paper. Two hours each week.</p>

Institute for Sustainable Practice

G. Dodd Galbreath, *Founding Director and Assistant Professor*
Emily Stutzman Jones, *Academic Director and Assistant Professor*

The mission of the Institute for Sustainable Practice is to develop and advance the practice of sustainability through advanced education, research, professional training, and service to the community and the world. The founding principles of sustainable practice can translate to all professions, cultures, organizations, economic markets and natural environments. Sustainability refers to a holistic approach in the stewardship of people, the planet, prosperity and providence.

The Institute for Sustainable Practice values the study and implementation of authentic scientific research and principles that help to make the world a better place. In addition, the movement on which the institution is based seeks to manage conflicts through collaboration and relies on diversity instead of divisiveness to resolve current challenges. Instead of fear, these movements offer hope through science and technology, bio-mimicked solutions, business-based reliability and efficiency and collective collaborations.

Described below are the primary pathways (concentrations) of undergraduate study available through the Institute for Sustainable Practice in partnership with other Lipscomb University colleges and institutes. The undergraduate major, Environmental and Sustainability Science, allows for in-depth study of the relationships among modern sustainability's core principles: people and society, economic prosperity with social purpose and responsible oversight of human activities, and the genuine caretaking of the planet.

Students encounter these concepts in classroom, laboratory and field experiences in nature, through service and internship opportunities in business offices, retail stores, area farms and food systems, manufacturing environments and in other agencies and regional opportunities. All students in the environmental and sustainability science major not only study theoretical and applied methods and core knowledge, they also undertake an applied independent study project where they become engaged in doing the activities they have learned.

Sustainability highlights on campus include: three university ground sourced heat pump cooling and heating system buildings, Tennessee's first LEED Gold Certified academic building, on-campus summits and lectures featuring the nation's most successful practitioners. Being located in Nashville, Lipscomb University takes advantage of the superb classroom for sustainability-in-practice as the city actively integrates sustainability into its neighborhoods and infrastructure. In the region, there has been \$2.5 billion of private investment in local solar energy industries, a new \$1.6 billion upgrade for Nissan's new Smyrna, Tenn., electric car and battery plant, a \$1 million LEED Platinum Certified Volkswagen automobile plant and growing notoriety for the internationally significant biodiversity of the Duck, Clinch and Powell Rivers and Great Smoky Mountains, among other wonders of creation within a day's drive of campus.

In short, our graduates leave with lives shaped to shape the world.

Environmental and Sustainability Science Major (ESS)

The Environmental and Sustainability Science (ESS) major has a 45 hour core of required courses (plus a 1 – 3 variable hour research requirement) that all undergraduate students must take and master (mainly math and science skills necessary to our field). Within this major we offer four Concentrations that encompass the interest range of our students: Conservation Ecology and Natural Resource Management, Environmental Law and Policy, Agro-Ecology, and Sustainable Practice. Each of these concentrations has a

unique set of additional requirements (between 10 – 16 hours depending on concentration) and a list of recommended electives to fulfill the 126-hour degree requirement.

Students entering our program have interests ranging from traditional ecology (stream, wildlife, conservation ecology and environmental science) to media analysis and compliance (air, water, soil, etc.), natural resource management, environmental law, policy and compliance, organic farming and food systems, to a wide variety of sustainable applications in various fields (sustainable health care, sustainable or environmental consulting,

sustainable energies (solar, biofuels, etc.) and sustainable entrepreneurialism. By the very nature of our multi-disciplinary field, we expect our student body to include a diverse range of interests. Our curriculum has been deliberately designed to give each student a strong core knowledge base as well as accommodate a significant number of courses to be taken in the student's specific area of interest in order to build a rigorous but personalized concentration area. One of the defining characteristics of our program is the requirement that all our students perform and present the results of an applied independent study, which may take the form of traditional ecologically based scientific research, development of a solution to a specific problem in the fields of business, engineering, computer science, marketing, journalism, medicine, etc., a business plan or feasibility study, or a specific project associated with an internship or other practical application.

Conservation Ecology and Natural Resource Management

This concentration includes a strong emphasis in biology, field analysis and earth science, preparing students for graduate programs or positions working in ecological fields such as wildlife biology, ecosystem study or other applied fields involving responsible natural resource use. This concentration can also integrate ecology, technology, analysis and proactive management for careers in regulatory agencies, technical fieldwork, internal compliance and environmental remediation in natural and/or urban environments. Conservation ecologists and natural resource managers connect society and nature through careers in urban or rural resource management, private land trusts, public conservation agencies, private land management and collaborative non-profits.

Agro-Ecology

This concentration involves students with interests in sustainable and organic agriculture, sustainable foods, sustainable food systems, permaculture, food forests, urban farming, and associated endeavors and fields. ISP has partnered with Goshen College and the Merry Lea Environmental Learning Center to offer ISP students in this track a unique summer opportunity to participate in an immersion experience held May through July. This experience allows students to live on a working farm, study agroecology, ecology, entomology, soil science and marketing.

Environmental Law and Policy

This concentration involves students studying policy issues and prepares students directed toward environmental compliance, those wanting to be involved in public policy or attend law school specifically to study environmental law making and compliance issues, students interested in business/manufacturing environmental compliance and regulatory issues, NGO and non-profit issues as they relate to environmental and environmental-social justice issues, and environmental conflict management.

Sustainable Practice

Of the ESS concentrations, this is the most trans-disciplinary course plan because it requires knowledge of science, technology, business and social dynamics. Students who want to pursue careers in planning and application of sustainable practices, technical consulting, business strategy, and non-profit management should consider this concentration. This concentration may also be chosen by students wanting to create a very specialized skill set to prepare them for a career in a specific area of sustainability.

Requirements for Majors

Environmental & Sustainability Science - Conservation Ecology and Natural Resource Management Concentration

B.S. degree program

Total hours required—126

Specific courses required:

BI 3123
 BY 1134, 1144, 3712, 4044
 CM 1113/1211, 1123/1221
 ESS 1013, 2013, 2123, 4213, 450V, 4992
 LJS 3103 or 3403
 MA 2183

Concentration courses:

Select two from the following:

BY 2623, 2813, 3114, 3413

Select one from the following:

CM 3214, 3414
 ESS 3223, 4223

Select one from the following:

MA 1135, 2053

Remainder of courses include electives that will be decided upon in collaboration with the institute's academic director.

Environmental & Sustainability Science - Agro-Ecology Concentration

B.S. degree program

Total hours required—126

Specific courses required:

BI 3123
 BY 1134, 1144, 3712, 4044
 CM 1113/1211, 1123/1221
 ESS 1013, 2013, 2123, 4213, 450V, 4992
 LJS 3103 or 3403
 MA 2183

Concentration courses:

Specific courses required:

BY 2623, 3114
 NUTR 2613

Select one from the following:

BA 3503
 ENT 2503

Remainder of courses include electives that will be decided upon in collaboration with the institute's academic director.

Environmental & Sustainability Science - Environmental Law and Policy Concentration

B.S. degree program
Total hours required—126

Specific courses required:

BI 3123
BY 1134, 1144, 3712, 4044
CM 1113/1211, 1123/1221
ESS 1013, 2013, 2123, 4213, 450V, 4992
LJS 3103 or 3403
MA 2183

Concentration courses:

Select one from the following:
BY 2321, 2623, 2813, 3114, 3413
CM 3214, 3414

Select one from the following:
ESS 3223, 4223

Select three from the following:
LJS 2103, 2203, 3203
PL 2013

Remainder of courses include electives that will be decided upon in collaboration with the institute's academic director.

Environmental & Sustainability Science - Sustainable Practice Concentration

B.S. degree program
Total hours required—126

Specific courses required:

BI 3123
BY 1134, 1144, 3712, 4044
CM 1113/1211, 1123/1221
ESS 1013, 2013, 2123, 4213, 450V, 4992
LJS 3103 or 3403
MA 2183

Concentration courses:

Select two from the following:
BY 2321, 2623, 2813, 3114, 3413

Select two from the following:
CM 3214, 3414
ESS 3223, 4223

Remainder of courses include electives that will be decided upon in collaboration with the institute's academic director.

Note: Each concentration includes a built-in biology minor.

Note: All courses designated ESS must be completed with a grade of "C" or higher.

Requirements for Minors

Sustainable Practice Minor

Total hours required— 18

Select eighteen hours from the following:

ESS 1013, 2013, 2123, 3133, 3223, 4213, 4223,
400V, 450V

Sustainability Degrees in other Departments

A B.B.A. degree in management with a concentration in sustainability offers students careers in business managerial positions with environmental responsibility. Refer to the Department of Management section for more information. This major and concentration increases the student's depth of knowledge and skills for greater success in Lipscomb University's Green M.B.A. graduate program.

Course Descriptions

Environmental & Sustainability Science (ESS)

1013 Environmental Biology (3) F, SP

A freshman-level course in environmental and sustainability science., cross-listed as BY 1013. A study of selected topics involving the natural environment as it relates to ecology, ecosystems, human population growth, earth systems, soil formation and conservation, biotechnology, toxicology, air and water resources, land use, energy resources. This course meets the general education science course without a lab requirement. This course may satisfy SALT Tier II credit.

2013 Introduction to Sustainable Energy Sources (3) F Also offered on demand

With the growing realization that finite, non-renewable energy resources are becoming increasingly limited in supply and affordability, human prosperity and survival may depend on a continuing renewable energy supply. This course will cover fundamentals of sustainable energy technologies and their dynamic costs and benefits as these technologies evolve in science and the market place. Sustainable energy options reviewed in this course include but are not limited to solar, wind, biomass, oceanic, geothermal, hydropower, fuel cell (hydrogen) and other energy sources. The student will evaluate potential energy sources based on its quadruple bottom line of economic, equity, and environmental and eternal implications. Lecture, 2 hours; Laboratory, 1 hour. This course meets the General Education science with laboratory requirement for all majors.

2123 Principles of Sustainability (3) SP Also offered on demand

This course represents a culmination of the undergraduate curriculum in Sustainability. The diverse subject areas that are relevant to sustainability will be brought together and synthesized into a cohesive body of knowledge. Lecture, 3 hours. Prerequisite: ESS 1013

3133 Community and Professional Service Learning (3) Offered on demand

Students provide community service and gain practical experience through mentored applications. Undergraduate students will work a minimum number of hours each week in a community "sustainability clinic" and/or in projects supervised by professional consultants and experienced graduate students in sustainability. Students may provide assistance to individuals, businesses, organizations or technical projects that identify sustainability practices, environmental management, technical options or potential

natural resource management assistance needs. Topics may include any application within a major field of study, including but not limited to renewable energy, waste = food, water, technical design, food, small business, corporate, entrepreneurship, manufacturing, recreation, tourism, civic, transportation or climate. Department permission required. A minimum of 195 hours of service (during a semester) is required. This course may satisfy SALT Tier III credit.

3223 Principles of Water Resources and Systems Management (3) F

Offered odd-numbered years

The course addresses the nature of fluid storage, movement and distribution in design systems and natural systems. Classroom simulations and site visits convey technical principles and methods of operation, processing and maintenance of design systems and natural treatment systems. These include surface and ground water resources, potable water and wastewater, including governing regulatory standards. Prerequisite: ESS 1013.

4213 Environmental Law and Policy (3) F

Offered even-numbered years or on demand.

A course designed to familiarize the student with significant environmental legislation including: national environmental policy act (NEPA), clean water act (CWA), endangered species act, clean air act (CAA), resource conservation and recovery act (RCRA), comprehensive environmental response compensation and liability act (CERCLA), and federal insecticide, fungicide and rodenticide act (FIFRA). The course includes fact-based discussion on topics of national and global environmental topics such as: protection of the global atmosphere, international trade and the environment, and industrial development in the "third world." Prerequisite: ESS 1013.

4223 Fundamentals of Environmental Management and Technology (3) SP

Offered odd-numbered years

Addresses the use of geospatial classification and measurement and map technology in the application of environmental management practices. Discussions and field reviews also address the selection, design and application of sustainability; compliance and remedial practices for air, water and land management; pollution control; animal waste; solid and hazardous waste, site characterization and cleanup; radiological control; and general pollution prevention among others. Prerequisite: ESS 1013.

400V Special Topics in Sustainability (1-3)

Offered on demand

This course is designed to more quickly respond to the ever-changing world of sustainability by housing a number of learning options. Examples of potential course offerings include an online course which focuses on the entirety of Earth systems. LEED Certification and Green Building Design, Sustainable Development and Land Use, Sustainable Remediation and Mitigation of Natural Systems and Resources, Sustainable Management of Water Systems and Supplies and Storm Water. Some sections include international and domestic travel opportunities to various sustainability sites and conferences and will include reading and assignments pertaining to the travel experience. Additional travel fees apply.

450V Independent Study and/or Senior Research (1-3)

Offered on demand

This is a variable credit independent research or problem/solution based inquiry. This independent study course is expected to consist of a distinct question-based or problem-based, solution-oriented endeavor that engages the student in applying ecological, environmental or sustainability skills toward a real-world problem. This course is not intended to be a literature research course alone, but a problem-solving or question-answering endeavor. Students (with facilitation by the instructor or mentor) identify the area of particular interest and propose an appropriate project: a question to study, hypothesis to test or problem solve. Depending on the project type, the project will include an analytical element, for example, data collection and analysis, cost-benefit analysis, multi-criteria decision analysis, etc. Projects may be in the form of a traditional scientific hypothesis-testing or data-collecting research project (field, lab, metadata, etc.) ending in a scientific paper, a feasibility study ending in a technical paper, or a problem identification - solution proposal study ending in a white paper or other acceptable product. Independent study courses will end with the submission of an agreed upon product, most likely a formal paper and/or formal presentation. 1-3 hours. Prerequisite: ESS 2123.

4992 Senior Seminar (2)

Offered on demand

This course transitions the student to life-long professional learning and development. The course also builds advanced communication techniques where the student extracts and presents current "hot" topics from prominent professional, technical and scientific periodicals, journals and best-selling books, using a variety of advanced presentation tools, group discussion/consensus techniques, community seminars, web-based networking and interaction with professional role models and guest speakers. In addition, this course is designed to help students understand the application process for applying for graduate school or other professional studies. Prerequisite: senior status.

LIFE Program

Distinctives of the Lipscomb Initiative for Education (LIFE) program

Faith and secular-based universities share many academic goals. For Christian, however, the reconciliation of all people to God and one another (2 Corinthians 5) is an essential and defining commitment. Thus, a Christian university will pursue justice for the marginalized, build community with the disinherited and work to restore right relationships between alienated neighbors.

As an expression of this mission, Lipscomb University has, since 2007, offered an educational opportunity like few others. The Lipscomb Initiative for Education (LIFE) program selects courses from the university curriculum and relocates them from campus to the Tennessee Prison for Women in west Nashville. Qualified candidates from the TPW are admitted as Lipscomb students. Students in one of Lipscomb's baccalaureate programs may study with their Lipscomb peers residing at the TPW by enrolling in these relocated classes. All students in the class at TPW, therefore, are Lipscomb University students earning college credit for their work. The course content may be essentially the same as if the courses were offered on campus, but the classroom context and diversity of students provides a rich, often life-changing educational experience. Whatever the academic discipline, together we explore something of what it means to be a minister of reconciliation in today's world.

Associate of Arts Degree

Lipscomb Associate of Arts degree is offered exclusively for students residing at TPW.

A.A. Degree Program

Total hours required—63

Specific courses required—

Civic Engagement (30 hours)

AR 1813 Art Appreciation

BA 3703 Business Communication

EN 219V Studies in Literature

HI 2223 US History II

HI 3253 or HI 4173 Foundations of Twentieth-Century America or American Civil Rights Movement

LJS 2103 Society and the Law

LJS 3403 or PO 4513 Conflict Management or Criminal Law and Procedure

PO 3433 Judicial Process

PS 1113 or SO 1123 Introduction to Psychology or Introduction to Sociology

Specific courses required—

Personal Development (27 hours)

Biological and Physical Science (with lab)—6 hours

CO 1003 Introduction to Communication

EN 1113 Composition and Reading I

EN 1313 University Writing

ENT 2503 An Entrepreneur's Introduction to Business

MA 1043 or 1053 Survey of Math Fundamentals or Survey of Algebra and Statistics

Modern Foreign Language—6 hours

Specific courses required—

Spiritual Formation (6 hours)

BI 3213 or 3433 - Faith and Culture or Disciplines for Christian Living

BI 4213 or PL 3433 - Biblical Ethics or Ethical Theory





College of Bible and Ministry

C. Leonard Allen, Dean

George E. Goldman II, Associate Dean

In keeping with the intent of the university's founders, the College of Bible and Ministry serves the entire campus community by teaching the Bible to each student. Faith-based learning is common to all of our academic programs. Christian education at Lipscomb also includes a direct exposure to the message of Scripture and its call to the fullness of life available to a disciple of Jesus Christ.

Those who desire to be further equipped for a life of ministry may major in Bible and add one or more areas of concentration as detailed in this section. Students who pursue this path will receive more extensive training in interpreting Scripture, thinking theologically and nurturing the faith of others as well as their own.

Off-site learning experiences (i.e. clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the timeframe for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses will result in failure to complete the desired program of study.

Department of Bible

George E. Goldman II, Associate Professor and Academic Chair

Holly Allen, Professor

Leonard Allen, Professor

Mark C. Black, Professor

Terry Briley, Professor

Lee Camp, Professor

Phillip Camp, Associate Professor

Ken Durham, Batsell Barrett Chair of Preaching

David Fleer, Professor

John Mark Hicks, Professor

Steve Joiner, Professor

Earl D. Lavender, Professor

Rhonda Lowry, Assistant Professor

Tom Seals, Associate Professor

Steve S. Sherman, Missionary in Residence

Josh Strahan, Assistant Professor

Walter Surdacki, Associate Professor

Michael Williams, Associate Professor

John O. York, Professor

The Bible program at Lipscomb plays a vital role in the school's Christian identity and mission. Some students at Lipscomb are preparing themselves for ministry in areas such as preaching or youth ministry. In keeping with the intention of the school's founders, however, all students study the Bible as an integral part of their curriculum. The hope is that each graduate of Lipscomb University will go into the world to pursue a vocation, not simply a career. "Vocation" in this context implies a sense of Christian mission that can find expression in any legitimate pursuit, such as nursing, business or education.

The first three Bible courses a student takes at Lipscomb cover the entire Bible. The purpose of these courses is not only to provide a basic foundation of biblical knowledge, but also to encourage students to see the big picture of God's mission in the world and to see themselves as part of that mission. The fourth course helps students face the challenges of living out that mission in today's world. Beyond this point, students may choose among a variety of textual and topical courses, including courses that are integrated into their chosen discipline.

The Bible program works in conjunction with other dimensions of the Lipscomb experience to encourage the spiritual formation of our students. The study of the Bible must not be seen as an end in itself, but as the basis of living out one's faith. Lipscomb provides a wide variety of opportunities for students to express their faith in worship and service. The goal is for all Lipscomb graduates to develop a biblical perspective and to nurture habits that they will take with them for the rest of their lives.

Distinctives of the Bible Department

Ministry today assumes a variety of forms. In addition to more traditional paths such as youth ministry, preaching or foreign missions, many desire to pursue domestic church planting, urban ministry or life in an intentional community. The core Theology and Ministry major at Lipscomb provides a foundation of knowledge, tools and skills that are critical for any type of ministry. The courses in the major focus on the following areas:

1. Scripture – Students learn not only the content of the Bible, but also how to interpret, communicate and live out its message.
2. Spiritual formation – Through the resources of Lipscomb's newly established Institute for Christian Spirituality, students learn the habits and practices that deepen and sustain their relationship with God through the demands of ministry. They also learn how these habits and practices can help those to whom they minister experience God's transformative power.
3. Missional perspective – God's people are called not only to enjoy God's blessings, but also to participate with God as his agents of extending those blessings to others. The focus on this perspective begins with a student's first Bible course at Lipscomb, calling attention to God's mission in his creation and humanity's privilege to play a vital role in that mission.
4. Contextual ministry – This focus refers both to the world in which ministry takes place and the nature of preparation for ministry in that world. Based on a strong foundation of Scripture and an understanding of the church's history of interaction with culture, students explore the wisest and most faithful ways to engage the contemporary world with the gospel. In the face of the rapidity and magnitude of change in today's world, Lipscomb's highly regarded Institute for Conflict Management provides invaluable resources to help students lead most effectively through especially challenging times.

The classroom plays a vital role in a minister's education, especially with a faculty like Lipscomb's that possesses extensive and varied personal experiences. In order to prepare to minister in the contemporary context, however, students need opportunities to learn through direct engagement with churches, service agencies and a community that reflects the diversity of today's world. Lipscomb's location in Nashville provides abundant opportunities for such engagement to play a significant role in its students' education.

Vocational Ministry Major

This unique major is available to students who have declared a major in another academic discipline but want to be thoroughly prepared to participate in kingdom ministry. This major prepares the student to pursue any vocation as a platform for living out their lives in partnership with God in his work in the world. The final course in this major allows the student to research individually how that life of ministry might be lived out in the particular vocation the student chooses to pursue. Students who choose this major must have a declared major in another academic area. The student's degree (B.A., B.S., etc.) and general education degree requirements will be determined by the student's first major.

Interdisciplinary Major in Worship Ministry

One of the crucial aspects of the church's life is its worship of God. Worship involves the interrelationship of scripture, song, prayer, communion at the table and their impact on the lives of the members of the body. It is a challenge to coordinate these varied aspects of worship in a way that is cohesive, pleasing to God and effective in touching the hearts and minds of the worshipers.

In light of this challenge, the College of Bible and Ministry and the Department of Music have joined together to develop an interdisciplinary major in worship ministry. The goal of this major is to prepare students with the knowledge and skills to assist congregations in meaningful, purposeful times of worship. This preparation includes biblical studies, as well as historical and theological aspects of worship, and the musical skills necessary to adapt songs for use in worship. In order to reach these goals, students who choose this major must complete the core Bible major plus the course Theology of Worship and a core of key courses in the Department of Music. This major has a built-in minor.

Minors

A variety of minors is offered by the Bible department. In addition to the built-in minors described below as concentrations, stand-alone minors are available in Bible, biblical languages, Greek, Hebrew and missions. A diversified minor, composed of 18 approved hours of additional 3000 and/or 4000 level courses outside the student's major field of study is an added option. Students who choose a major outside the Bible department may find one of the department's minors exciting and useful.

A student who takes only the core theology and ministry major, without a concentration, must also have a minor. Some Bible majors may find minors in other departments appropriate to their specific goals. Psychology, for example, is a popular choice. A minor in education would be helpful for Bible majors who have an interest in teaching Bible at a Christian school. This minor does not qualify the student for licensure as a teacher, but licensure is not typically a requirement for teaching Bible in a private school.

Requirements for Majors

Theology and Ministry Major

B.A. degree program only

Total hours required— 42

Specific courses required—

Bible 2283, 2713, 3203, 3673, 3763, 3813, 3823*, 4503, 4513, 4793, 4973

Bible 4Dn3 Bible Text Intensive – Three sections (9 hours) of this course are required, including at least one Old Testament text and at least one New Testament text.

The general education language requirement must be satisfied with either Greek 1515, 1525 or Hebrew 1515, 1525.

*Meets requirement for Bible 3213, 3433, 4213

Theology and Ministry Major - Children's Ministry Concentration

B.A. degree program only

Total hours required— 63

Specific courses required—

Bible 2283, 2713, 3203, 3273, 3543, 3673, 3763, 3813, 3823*, 4503, 4513, 4553, 4793, 4973

Theatre 3413

Bible 4Dn3 Bible Text Intensive – Three sections (9 hours) of this course are required, including at least one Old Testament text and at least one New Testament text.

Three hours of Bible 479V or two hours of Bible 479V plus Family and Consumer Science 3451

Choose two of three courses: Family and Consumer Science 2413, Family and Consumer Science 4423, Psychology 3243

The general education language requirement must be satisfied with either Greek 1515, 1525 or Hebrew 1515, 1525.

Note: A distributive minor is built into this major.

*Meets requirement for Bible 3213, 3433, 4213

Theology and Ministry Major - Language Concentration

B.A. degree program only

Total hours required— 61

Specific courses required—

Bible 2283, 2713, 3203, 3673, 3763, 3813, 3823*,
4503, 4513, 4793, 4973

Greek 1515, 1525

Hebrew 1515, 1525

Six hours selected from:

Greek 3013, 3023, 3033, 4013, 4023, 4033, 450V

Six hours selected from:

Hebrew 3013, 3023, 3033, 450V

Six additional hours of Greek readings or Hebrew readings

Note: A distributive minor is built into this major.

*Meets requirement for Bible 3213, 3433, 4213

Theology and Ministry Major - Missions Concentration

B.A. degree program only

Total hours required— 63

Specific courses required—

Bible 2283, 2313, 2323, 2333, 2713, 3203, 3333,
3673, 3763, 3813, 3823*, 4503, 4513, 470V,
4793, 4973

Bible 4Dn3 Bible Text Intensive – Three sections
(9 hours) of this course are required, including
at least one Old Testament text and at least
one New Testament text.

Six hours selected from:

Bible 3803, 4303, 4323, 4363, 4393, 487V

The general education language requirement must be
satisfied with either Greek 1515, 1525 or Hebrew
1515, 1525.

Note: A distributive minor is built into this major.

*Meets requirement for Bible 3213, 3433, 4213

Theology and Ministry Major - Preaching Concentration

B.A. degree program only

Total hours required— 54

Specific courses required—

Bible 2283, 2713, 3203, 3333, 3653, 3763, 3803,
3813, 3823*, 4503, 4513, 4553, 475V,
4793, 4973

Bible 4Dn3 Bible Text Intensive – Three sections
(9 hours) of this course are required, including
at least one Old Testament text and at least
one
New Testament text.

The general education language requirement must be
satisfied with either Greek 1515, 1525 or
Hebrew 1515, 1525.

Note: A distributive minor is built into this major.

* Meets requirement for Bible 3213, 3433, 4213

Theology and Ministry Major - Youth Ministry Concentration

B.A. degree program only

Total hours required— 63

Specific courses required—

Bible 2283, 2713, 3203, 3513, 3523, 3533, 3543, 3673,
3763, 3813, 3823*, 4503, 4513, 4553, 477V (3
hrs.), 4793, 4973

Bible 4Dn3 Bible Text Intensive – Three sections
(9 hours) of this course are required, including at
least one Old Testament text and at least one
New Testament text.

One course selected from: Family and Consumer
Sciences 3433, 3503, 3523 or Sociology 2103

The general education language requirement must be
satisfied with either Greek 1515, 1525 or
Hebrew 1515, 1525.

Note: A distributive minor is built into this major.

*Meets requirement for Bible 3213, 3433, 4213

Second Major in Vocational Ministry

Degree determined by first major

Total hours required— 39

Specific courses required—

Bible – Bible 4503, 4513

Theology – Bible 3433 or 3823, Bible 3213,
3203, 4213

Ministry and Missions – Bible 2283, 2313, 4123,
either Bible 2713 or 3763

Nine hours selected from – Bible 2323, 2333, 3123, 3273,
3333, 3513, 3523, 3533, 3543, 3673, 4303, 4393,
4553, Engineering 3122

The general education degree requirements will be
determined by the student's first major.

Interdisciplinary Major in Worship Ministry

B.A. degree program only

Total hours required— 68

Specific courses required—

Bible 2283, 2713, 3203, 3673, 3763, 3803, 3813,
3823*, 4503, 4513, 4793, 479V, 4973

Theatre 3413

Music 1000 or 1010, 1111, 1121, 1133, 1143,
1511, 3303, 3313, 3403, 4020, 4612

Bible 4Dn3 Bible Text Intensive – Two sections
(6 hours) of this course are required, with one
Old Testament text and one New Testament text.

The general education language requirement must be
satisfied with either Greek 1515, 1525 or Hebrew
1515, 1525. Participation in Music 1000 or Music
1010 for two semesters is required. Participation in
Music 1511 for two semesters is required.

*Note: A distributive minor or minor in music is built into this
major.*

*Meets requirement for Bible 3213, 3433, 4213

Requirements for Minors

Bible Minor

(Not open to theology and ministry majors)

Total hours required— 18

Specific courses required—

Bible 3203, 4503, 4513, 4793

Two additional three-hour bible courses from Bible (BI)

Primarily for Bible majors and minors

Biblical Languages Minor

Total hours required— 26

Specific courses required—

Greek 1515, 1525

Hebrew 1515, 1525

One Greek readings course

One Hebrew readings course

Greek Minor

Total hours required— 19

Specific courses required—

Greek 1515, 1525

Three courses selected from:

Greek 3013, 3023, 3033, 4013, 4023, 4033

Hebrew Minor

Total hours required— 19

Specific courses required—

Hebrew 1515, 1525, 3013, 3023, 3033

Missions Minor

Total hours required— 18

Specific courses required—

Bible 2313, 2323, 3203, 3333,
either 4503 or 4513

One course selected from:

Bible 2333, 3823, 4303

Course Descriptions

Bible (BI) General Education Bible Courses

1003 Introduction to the Bible and Christianity (3) F, SU

This course is intended for incoming students at Lipscomb who have limited exposure to the Bible and the Christian faith. It is designed to help these students acquire the general information and background that will prepare them for the rest of their Bible courses. Topics to be covered include the books of the Bible, the key events and people in the Bible, the overall storyline of the Bible and the background of the various expressions of Christianity today. This course is only open to students in their first year at Lipscomb.

1053 Early Hebrew History (3) F, SP

Adult Degree Program students only

A historical survey of the Old Testament period, with special emphasis on God's redemptive purpose in relation to the coming of Christ. Students who have taken Bible 1512 cannot take this course.

1063 Luke - Acts (3) F

Adult Degree Program students only

An analysis of Luke's two-volume account of the life and ministry of Jesus and the history and ministry of the early church.

1073 The Story of Jesus (3) F

A study of what the four Gospels, with an emphasis on the Gospel of Luke, reveal about the life and message of Jesus, the significance of his redemptive work in God's larger purpose and how disciples live out the story of Jesus in their own lives.

1083 The Story of the Church (3) SP

A study of the development of the early church from Jesus' ascension to the end of the New Testament period in order to understand the beliefs and practices of the early church, as well as their relevance for the life of the church today.

1093 The Story of Israel (3) F

A historical survey of the Old Testament period, with special emphasis on God's redemptive purpose in relation to the coming of Christ. Students who have taken Bible 1512 cannot take this course.

Old Testament: Narrative History, F, SP

A detailed study of the text of the selected Old Testament book(s) which recounts the story of God's redemptive purpose.

2013 Genesis (3)

2023 Joshua (3)

2043 Samuel (3)

2053 Kings (3)

Old Testament: Law F, SP

A detailed study of the text of selected Old Testament books which give God's guidance for the lives of his covenant people.

2113 Exodus (3)

2143 Deuteronomy (3)

2223 Marriage and the Christian Home (3) F, SP

An analysis of the Scriptures relating to marriage and the home, with special emphasis on areas of adjustment necessary for a strong marriage.

2313 Introduction to Intercultural Mission (3) F, SP

An introductory study of the Christian's mission to the world. The course studies God's mission in world history, with a special focus on the ministry of Jesus as the commission for our participation in world mission. This study challenges students to see themselves within the context of God's purpose for their life. This course also serves as the introduction to Christian missions for the student wanting to pursue missions as an emphasis. This course may satisfy the SALT Tier II requirement.

2323 Principles and Methods of Intercultural Mission (3) SP

A practical study of the principles upon which the Christian mission of ministry must be pursued throughout the world. Methodology will be discussed based on the biblical principles identified. This course not only serves the future missionary, but everyone interested in effectively reaching the world around them with the good news of Jesus.

Old Testament: Psalms/Wisdom F, SP

A detailed study of the text of selected Old Testament books which record the reflections of devout believers on life as it relates to God.

2423 Job and Ecclesiastes (3)

2433 Proverbs, Song of Solomon (3)

3563 Psalms (3)

Old Testament: Prophets F, SP

A detailed study of the text of selected Old Testament books which contain the prophets' exhortations to the covenant people based on God's actions in the past and promises for the future.

2513 Isaiah (3)

2523 Jeremiah, Lamentations (3)

2611 Reflections: Old Testament (1) SU

Discussion of select Old Testament passages, with special effort to show relevance for the contemporary student. Student is required to participate in discussion and class activities.

2621 Reflections: New Testament (1) SU

Discussion of select New Testament passages, with special effort to show relevance for the contemporary student. Student is required to participate in discussion and class activities.

2813 The Gospel of Matthew (3) F, SP

An analysis of the life and teachings of Jesus as described in the Gospel according to Matthew.

2823 The Gospel of Mark (3) F, SP

An analysis of the life and ministry of Jesus as described in the Gospel according to Mark.

2833 The Gospel of John (3) F, SP

An analysis of the life and ministry of Jesus as described in the Gospel according to John.

Epistles F, SP

An analysis of one or more of the letters in the New Testament.

2913 Corinthians (3)

2923 Prison Epistles (3)

2943 Hebrews, James (3)

2983 Romans (3)

2973 Revelation (3) F, SP

An analysis of the Apocalypse.

3103 Missional Christian Living (3) F

This seminar-style class is intended to deepen the student's understanding of biblical teaching on a missional lifestyle and provide opportunities for students to live out these teachings in service to the community through partnership with nonprofit and community service organizations. This course will utilize the service-learning method of teaching and learning, in which students participate in important service work to strengthen the community as they apply the concepts they are learning in the classroom. Classroom discussion will center around missional ideas and

personal experiences. Significant service work outside of the classroom is required for this course. This course may satisfy the SALT Tier II requirement.

3123 Engineering Ethics: Redemption and Technology (3) SP

An examination of the philosophical and (implicit) theological framework undergirding the use and development of technology, as it particularly relates to the engineering sciences. The course will pay significant attention both to questions of "the good," and to more concrete questions of application. The course will also have a component that requires students to become familiar with codes of professional ethics in their respective fields of study.

3153 Nursing as Kingdom Vocation (3) F

This course introduces those on a nursing career path to the theological and ethical significance of their chosen profession. By locating the nursing profession within the redemptive story of Scripture and integrating the practical and professional dimensions of nursing with faith, students will explore the process and content of ethical reflection in the context of the nursing profession.

3213 Faith and Culture (3) SP

Beginning with the question, "Who are we?," we consider what it means to fully participate in God's kingdom. Out of this identity (kingdom world view) we will enter into conversation with contemporary philosophy, science, social theory and world religions. The purpose of the course is to assist the student in forming a deeper Christian faith and to equip him/her to engage in meaningful dialog with those of other ideologies. This course may satisfy the SALT Tier II requirement.

3223 Worldviews (3) SU Adult Degree Program students only

A survey of secular and religious worldviews and their relationship to the Christian world view. Students will become familiar with major views in the world today and examine them in light of biblical principles

3433 Disciplines for Christian Living (3) F, SP

This course gives students resources, encouragement, and experience in the regular practices that deepen their awareness of relationship with God. This course may satisfy the SALT Tier II requirement.

4043 Selected Texts, Old Testament (3) F, SP

A study of selected biblical texts in the Old Testament that are not addressed in other courses.

4133 Selected Texts, New Testament (3) F, SP

A study of selected biblical texts in the New Testament that are not addressed in other courses.

4213 Biblical Ethics (3) F, SP;**Adult Degree program students only: SP, SU**

The ethical teachings of the Bible, including the basis and content of Christian ethics and an evaluation of modern challenges.

4223 The Holy Spirit (3) SP

An analysis of the Scriptures relating to the person and work of the Holy Spirit, with an evaluation of Pentecostalism.

- 4323 World Religions (3) F**
The nature of religion as illustrated in the tribal and ancient religions and then in living world religions. Special emphasis will be given to the contrast between one of the living world religions and Christianity.
- 4363 New Religious Movements (3) F, SP**
A study and critique of representative groups of cults which have either developed in America or which have become influential in America after being founded elsewhere.
- 4xnV Special Studies (1, 2, 3) F, SP, SU**
Topics of special interest to students and faculty which do not fit one of the current classifications. Students may repeat this course when course numbers are different. These courses are advanced and are intended for students genuinely interested in their content. Specific titles will be announced in the course schedule. Prerequisite: Junior standing. Permission of the instructor may be required.

Bible (BI) Primarily for Bible Majors and Minors

- 2283 Explorations in Ministry (3) SP**
This introductory exposure to the life and work of a minister will consider issues such as a minister's family relations, spiritual life and ethics. Students will also engage with effective practitioners from a variety of ministry experiences. Recommended as a first course in ministry for all Bible majors during the freshman year.
- 2333 Theology and Anthropology of Intercultural Ministry and Mission (3) F Offered odd-numbered years**
A consideration of the biblical principles of mission throughout the world combined with a careful study of the interplay of theology and mission throughout the Christian era with the intent of building contemporary applications for mission to a postmodern world. This course is designed to help the student identify the good news and consider how it can most effectively be presented within a particular culture.
- 2713 The Story of Global Christianity (3) F**
This overview of Christianity throughout the world spans the time from the church's beginning to the contemporary period. It focuses on the church's response to the internal and external challenges of various times and cultures.
- 3203 God, Creation, and New Creation (3) F**
This examination of Christian theology places doctrines such as the nature of God, sin, salvation, etc. in the broader context of the Bible's overarching narrative.
- 3273 Children's Ministry (3) SP Offered even-numbered years**
This course introduces the student to the church's ministry to children. It will focus on faith development in children, the organization and management of church programs for children, as well as how to work with parents of the children.
- 3333 Intercultural Communication (3) SP Offered odd-numbered years**
In a rapidly diversifying world, this study provides the student with an opportunity to consider how to effectively communicate the good news across cultural boundaries and in diverse multicultural settings. The course is designed to be an intensely practical study of communication, both verbal and non-verbal.
- 3513 Introduction to Youth and Family Ministry (3) F**
An introduction to the purpose and theology of youth and family ministry in the local church. This course will investigate the world of adolescence and adolescent culture, noting trends and factors important to those who minister to teenagers. Strongly recommended as a first course for youth ministry majors. This course may satisfy the SALT Tier II requirement.
- 3523 The Youth Ministry Program (3) SP**
A holistic approach to the planning and management of ministry to adolescents. Special attention will be given to multiple staff relationships, finance/budget, personal preparation and planning ministry events. Outside resource personnel will be utilized.
- 3533 Educating Adolescents in the Church (3) F**
A study of various teaching methods that can be used in the instruction of adolescents in the local church. Students will be involved in the planning of teenage curriculum and in the design of actual lesson plans. Not recommended as a first course in youth ministry. Prerequisite: Junior or senior standing.
- 3543 Family Ministry (3) SP**
A study of what churches can do to help families in the church and in the community. This course will investigate the theology of the family, the problems and struggles of modern families and methods that can be used to minister to families. Prerequisite: Junior or senior standing.
- 3653 Expository Preaching (3) SP***
Building competence in interpreting and presenting Biblical texts, with application to life. Prerequisites: Bible 3673, 4503, 4513.
- 3673 Communicating the Gospel (3) F, SP**
This course helps students move from their own understanding of the message of the Bible to communicating it to others in a way that helps them understand, receive and respond to it. Should be taken as the first course in preaching. Prerequisites: Bible 4503, 4513.
- 3753 Religion and American Culture (3) F**
See History 4013.
- 3763 The Story of the Restoration Movement in America (3) SP**
The story of the movement which shaped the contemporary Christian church (Disciples of Christ), independent Christian churches and Church of Christ within the context of American church history.
- 3803 Theology of Worship (3) SP Offered even-numbered years**
This course explores the historical, biblical and theological foundations of Christian worship as a forum for discussing contemporary trends in corporate worship. The contemporary tension over worship is set against the historic traditions of Christian worship from the early church through the present. Biblical materials are surveyed, and a theology of Christian worship is developed and applied.

- 3813 A Theology of the Church (3) F**
This course is intended to deepen the student's understanding of biblical teaching on the nature and importance of the church as the extension of the saving incarnation of Christ.
- 3823 Spiritual Formation for Ministry (3) F, SP**
This course provides instruction and guidance for the spiritual life of students who plan to be ministers. Prerequisite: Junior standing.
- 3833 The Biblical World (3) F, SP**
Literary, political and religious backgrounds of the Old and New Testaments. This would include the thought patterns of the Ancient Near East and also cover material from the Apocrypha, Pseudepigrapha, Dead Sea Scrolls, Philo, Josephus, Greek and Roman hellenistic sources and Rabbinic writings.
- 4123 Seminar in Vocational Ministry (3) F, SP**
An independent study course to be taken the last semester of a student's undergraduate experience. This course is available only to students pursuing a second major in ministry. The course will assist a student in researching the possibilities of ministry within the specific vocation of his or her primary major. The course will include required readings, mentoring by professors of both ministry and the student's primary major, interviews with those already working in the student's desired profession, along with other forms of research.
- 4303 Incarnational/Medical Missions (3) SP**
Offered even-numbered years
Building on passages which speak of compassion and those which describe Jesus' teaching and healing ministry, this course looks at Christian "missions" from a holistic point of view that includes the spiritual, mental, social and physical needs of humanity.
- 4393 Current Issues in Missiology (3) F**
Offered even-numbered years
An examination of the prevailing issues in missiology that are influenced and shaped by the political, social, spiritual and theological dynamics of our world. This course will also explore avenues of response through the proclamation of the gospel of Jesus Christ and the establishment of God's kingdom.
- 4503 Old Testament Interpretation (3) SP**
Principles, resources and methods essential for understanding what Old Testament texts said to their original audiences and for making application to modern audiences. Special attention will be given to an examination of significant sections of the Old Testament text which are illustrative of each genre of Old Testament literature.
- 4513 New Testament Interpretation (3) F**
Principles, resources and methods essential for understanding what New Testament texts said to their original audiences and for making application to modern audiences. Special attention will be given to an examination of significant sections of the New Testament text which are illustrative of each genre of New Testament literature.
- 4553 Ministerial Care (3) F**
A study of the minister's role as a care-giver in a congregation. This course will give a minister insight in how to listen to and help people who are struggling with issues in their lives, as well as insight into some of the typical kinds of problems that people discuss with a minister. Not recommended as a first course in ministry. This course may satisfy the SALT Tier II requirement. Prerequisite: junior standing.
- 470V Internship in Missions (1, 2, 3) Offered on demand**
Participation in mission trips or other cross-cultural contact and teaching. Supervision in the activity and subsequent evaluation will be provided. Includes psychological testing and analysis. Prerequisite: Bible 2312. Repeatable for a maximum of six hours. This course may satisfy the SALT Tier II requirement.
- 475V Internship in Preaching (1, 2, 3) Offered on demand**
Supervised field work with a church in which the student observes and contributes to the evangelistic program. Prerequisite: Bible 3673. Repeatable for a maximum of six hours. This course may satisfy the SALT Tier II requirement.
- 477V Internship in Youth Ministry (1, 2, 3) Offered on demand**
Closely supervised ministry experience under a mentor. Attention will be given to the practical application of youth and family ministry. Prerequisites: Bible 3513, 3523. Repeatable for a maximum of six hours. This course may satisfy the SALT Tier II requirement.
- 479V Internship in Ministry (1,2,3) Offered on demand**
Supervised field work in some aspect of ministry other than preaching or youth ministry (e.g. campus ministry, benevolence ministry). Prerequisite: 7 hours in Bible including one ministry course. Repeatable for a maximum of six hours. This course may satisfy the SALT Tier II requirement.
- 4793 The Bible and Scholarly Study (3) SP**
The Bible has been the object of academic inquiry for centuries. The results of this inquiry, which sometimes challenge the Bible's integrity, have increasingly entered into popular media. This course helps students to place biblical scholarship in context and to recognize the difference between fair and unfair approaches to the text. Prerequisite: Junior standing.
- 486V Readings in Church History (1, 2, 3) Offered on demand**
Selected readings in an area of church history. Prerequisite: Bible 2713 or 2723. Repeatable for a maximum of three hours.
- 487V Readings in Missions (1,2,3) Offered on demand**
Selected readings tracing the historic development of the Christian mission from William Carey (1793) through the 20th century, with special emphasis on the theological perspectives which shaped the dynamic mission movements and achievements of the past with the prospects for the future. Can be repeated for a maximum of five hours.

490V Biblical Studies Travel (1,2,3) Offered on demand
A study tour providing experiential analysis of sites of importance for biblical studies (Holy Land, Greece, Turkey and sites of importance for church history). A written project will be required. Course may be repeated for a total of 6 semester hours when location varies.

4973 Senior Seminar (3) SP
A capstone, integrative seminar for Bible majors to be taken in the senior year. The course consists of a seminar format, including extensive use of case studies, a major paper and oral presentation. Students combine Christian theology, biblical studies and ethics in order to understand Christian ministry today.

4Dn3 Bible Text Intensive (3) F (Old Testament), SP (New Testament)
An in-depth study of various Old and New Testament texts. Emphasis will be placed on the historical and cultural background of the given text, as well as its literary features. Students will be expected to research and write on these texts. This course may be repeated, as long as the text being studied differs. This course is only open to Bible majors and minors, and students in the honors program. Other students may be admitted with permission of the instructor.

Greek (GR)

- 1515, Introduction to Greek I, II (5, 5) F, SP**
1525 A study of Greek grammar. Careful drill in forms, pronunciation and translation. Prerequisite to 1525: Greek 1515 with a minimum grade of "C."
3013, The Greek New Testament I, II, III (3, 3, 3) F, SP, SU
3023, Readings from the Greek New Testament.
3033 Prerequisite: Greek 1525 with a minimum grade of "C." Greek 3013 must be taken first.
4013, Advanced New Testament Greek I, II, III (3, 3, 3) F, SP, SU
4023, Advanced study of selected portions of the New Testament together with readings from Hellenistic Greek. Prerequisite: Greek 1525 with a minimum grade of "C."
450V Independent Study in Greek (1, 2, 3) Offered on demand
Independent study in Greek with translation, grammatical and exegetical exercises as approved by supervising professor. Limit: 6 hours.



Hebrew (HB)

- 1515, Introduction to Hebrew I, II (5, 5) F*, SP***
1525 Emphasis on Hebrew vowel points, vocabulary, verb conjugation, practice in translation, syntax and other grammatical phenomena. Prerequisite to 1525: Hebrew 1515 with a minimum grade of "C."
3013, The Hebrew Old Testament I, II, III (3, 3, 3) F*, SP*, SU*
3023, Readings in Old Testament books with emphasis on building vocabulary, reviewing verb forms and making occasional comparative studies in the Septuagint and New Testament. Prerequisite: Hebrew 1525 with a minimum grade of "C." Hebrew 3013 must be taken first.
450V Independent Study in Hebrew (1, 2, 3) Offered on demand
Independent study in Hebrew with translation, grammatical and exegetical exercises as approved by supervising professor. Limit: 6 hours.
*Offered in alternate years



College of Business

C. Ray Eldridge, *Interim Dean*

Joe Ivey, *Associate Dean, Graduate Studies*

Michael E. Kendrick, *Associate Dean, Global Business Studies*

John Crawford, *Assistant Dean, Accreditation and Assessment*

Mission - *The College of Business will develop business leaders who embrace the values and virtues of Jesus.*

Vision - *We will positively affect the future by developing leaders who model Jesus by growing in "wisdom and stature, and in favor with God and man." (Luke 2:52) These leaders will possess the business competence to influence others, organizations, and society.*

Values and Virtues

A purposeful leader is determined and disciplined, striving to achieve an organization's most important and meaningful objectives, while being a good steward of the resources with which he or she has been entrusted. (Luke 14:28; Matthew 25:14)

A bold leader is strong and courageous, seeking to be influential and willing to challenge the limits of conventional thought. (Deuteronomy 31:6, 1 Corinthians 16:13, 2 Timothy 1:7)

A credible leader is truthful and trustworthy, displaying both competence and confidence. (Matthew 6:21, 1 Corinthians 13:6, Luke 16:10-12)

A creative leader is imaginative and adaptive, embracing change and creating opportunities from that change. (John 8:1-11, Luke 10)

A servant leader is humble, compassionate, and approachable, encouraging others to be their best through the personal example they set. (Philippians 2:3-11, Matthew 5)

For 120 years, it has been the purpose of the university to teach our students how to do things right and to challenge them daily to consider what the right thing to do should be in each and every demanding circumstance of business and life. The words of Psalm 78:74 - "And David shepherded them with integrity of the heart; with skillful hands he led them." - exemplify our objective to train our students to have both the skills and the integrity to succeed and to lead.

The College of Business at Lipscomb University seeks to provide students with the knowledge, skills and competencies they need to be successful in today's global business environment. Students may choose from excellent academic programs that are delivered in a Christian environment by exceptional faculty whose passion is helping students achieve their goals.

Lipscomb offers the Bachelor of Business Administration (B.B.A.) degree for its business majors. This degree is designed specifically for business majors, beginning with the Entrepreneurs' Introduction to Business course that students take as freshmen and culminating with our capstone Business Policy and Strategy course taken by graduating seniors. The academic program consists of a broad liberal arts component, followed by the business core, and ending with specialized courses in the major of study. The B.B.A. degree integrates decision-making, technology, communication skills, ethics and a global emphasis into our academic programs. Practical applications can be achieved through business clubs and organizations, global travel, a mentoring program and internship opportunities.

Our outstanding business faculty bring practical business experience as well as depth of academic knowledge into the classroom. The faculty of the College of Business are committed to fostering relationships with the business community and encouraging

exchanges among students and businesses. Many of our students are involved in service learning projects which prepare them to be servant leaders in businesses and organizations.

The College of Business is a member of and accredited by the Accreditation Council for Collegiate Business Schools and Programs. Separately, the accounting program was one of the first four programs worldwide accredited for accounting by ACBSP. The college also sponsors the Eta Mu chapter of Delta Mu Delta, an international honor society for business majors.

In addition to the undergraduate and graduate programs, the College of Business is comprised of the Center for Global Connectedness and Collaboration, the Center for Entrepreneurship and the School of Executive Education. The College of Business also houses the Dean Institute for Corporate Governance and Integrity,

Lipscomb's College of Business launched the Center for Global Connectedness and Collaboration in 2012. The purpose is to develop global connectedness and collaboration between organizational business practices, educational research, and the needs of business, academic and government communities in the greater Nashville region.

The Center for Entrepreneurship provides an environment in which business creativity is shaped by solid business knowledge. Students experience what it means to start their own businesses before graduation. In fact, upon graduation, a student has a finely tuned business plan ready to execute, that has survived student/faculty critique based on the experience of entrepreneurial faculty professionals who have been down the same road. The center offers a major and minor in two areas.

The School of Executive Education offers professional and continuing education courses designed to enhance the skills and knowledge of business leaders. These programs are typically shorter in nature, presented in an intensive and interactive format, and consist of non-degree programs generally not offered for academic credit. The School of Executive Education offers innovative ideas, relevant knowledge and practical applications. Business leaders will benefit from the extensive research and real-world experience that serve as the school's foundation.

Off-site learning experiences (i.e. clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the timeframe for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses will result in failure to complete the desired program of study.

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Bachelor of Business Administration

General Education

The general education requirements for the B.B.A. degree are shown under general education requirements in the Academic Program section of the catalog.

1. Economics 2503 must be taken to fulfill the social science requirement.
2. The mathematics requirement will be satisfied only with MA 1113, 1123, 1135, 1314, or 2053.

Business Core (48 hours*) and Other Required Courses for B.B.A. Degree

All majors in the B.B.A. degree must complete the following courses:

Accounting 2503, 2513
Business Administration 3503, 3703, 3803, 4503
Select three hours from the following courses:
Business Administration 3603, Accounting 4803,
Finance 4803, Management 4803, or Marketing 4803
Economics 2503, 2513
Entrepreneurship 2503
Finance 2503, 3503
Management 3013, 3503, 3613
Marketing 3503
Operations and Supply Chain Management 3503
Mathematics 1113 or higher

*There are 48 hours in the business core. Economics 2503 and Mathematics 1113 are also included in the general education requirements.



Electives

Students pursuing the B.B.A. typically have 12 hours of general electives in order to complete the required 126 credit hours to graduate. The College of Business encourages students to use these hours in areas such as:

1. Minor - Based on their interests, students may use their open electives to pursue any of the minors offered by Lipscomb University.
2. Foreign language - As globalization increasingly affects businesses, students are strongly encouraged to consider studying foreign languages.
3. Computing and informatics - Information technology is a key enabler in the business world. Courses in the School of Computing and Informatics can be extremely valuable to business students.
4. Psychology and sociology - Students in management may find advanced study in psychology and sociology to be a valuable addition to their major course work.

Policies

- At least 12 hours in a student's major department and which apply to the major requirements must be taken at Lipscomb.
- At least 9 hours in a student's minor department and which apply to the minor requirements must be taken at Lipscomb.
- At least 24 hours in a student's business core courses and which apply to the degree requirements must be taken at Lipscomb.
- A business major whose minor is also in business must have at least 12 hours in the minor that are different from hours satisfying the major requirements.

Department of Accounting, Finance & Economics

Charles E. Frasier, *Professor and Academic Chair*

Susan C. Galbreath, *Professor*

Richard J. Grant, *Professor*

William C. Ingram, *Professor*

Jeff J. Jewell, *Professor*

Jeffrey A. Mankin, *Assistant Professor*

Brian S. Masterson, *Assistant Professor*

Perry G. Moore, *Professor/Director of the MAcc Program*

Julio Rivas-Aguilar, *Assistant Professor*

The mission of the Department of Accounting, Finance and Economics is to develop ethical, effective practitioners and scholars in the related disciplines of accounting, finance and economics.

Distinctives of the Accounting Major

The accounting program was one of the first four programs accredited for accounting by the Accreditation Council for Collegiate Business Schools and Programs. The accounting program is recognized for its academic excellence and preparation of students for successful careers in the accounting profession. The accounting program has experienced a 100 percent placement rate for accounting graduates in recent years and has established a proven track record of preparing students for the CPA Examination.

The accounting program offers the traditional accounting major, but also provides: a joint 150-hour B.B.A./M.Acc. degree; a unique summer accelerated accounting program offering up to 24 hours of undergraduate accounting course work; a full major in the evening Adult Degree Program; the Master of Accountancy graduate degree; and the Master of Business Administration (M.B.A.) graduate degree with an accounting concentration. Students are able to enter the graduate program prior to completing their undergraduate work, receiving a joint B.B.A./M.Acc. degree after meeting all requirements.

The accounting faculty offer extensive experience in the professional practice of accounting, auditing and tax planning and are able to translate this experience into practical classroom applications.

Majors in accounting are required to have an accounting internship to further integrate the academic and experiential areas of accounting.

Activities and Organizations

- *Annual Meet the Firm Night.* Students network with employers about career opportunities.
- *Internships.* Students are required to participate in the internship program where positions are available with large to medium-size public accounting firms, publicly-held corporations and other organizations. Internships provide students with opportunities to work in a professional environment while earning academic credit. Most accounting internships are paid internships.

- *Accounting and Finance Society.* Serves all students interested in the fields of accounting and/or finance, and provides opportunities for both professional and social networking with potential employers and College of Business faculty.
- *Volunteer Income Tax Assistance Program.* The accounting program works with the Internal Revenue Service in a joint program, known as the VITA program, providing tax return preparation services for low income families and the elderly. This program very successfully integrates the practice of accounting with service to the community.
- *Student Center for the Public Trust.* Lipscomb University is home to the inaugural Student Center for the Public Trust chapter, created in 2009 by the NASBA Center for the Public Trust, to focus on educating and engaging future business leaders in the areas of ethics, accountability and integrity.

Career Opportunities - Accounting

- Public accounting
- Internal auditing
- Managerial accounting
- Government and nonprofit accounting
- Law school

Lipscomb's Accounting Program and the CPA Examination

The state of Tennessee has adopted the 150-hour requirement for candidates to qualify to sit for the CPA Examination. To satisfy this requirement, candidates must have at least a bachelor's degree and a minimum of 150 semester hours from an accredited college or university (including certain minimum accounting and business course requirements).

In order to prepare our students for the CPA examination, Lipscomb University offers the following options:

1. Obtain the joint B.B.A./M.Acc. degrees. This option provides both an undergraduate degree with a major in accounting and a Master of Accountancy degree in 150 hours of course work.

2. Obtain the 126-hour undergraduate major in accounting and obtain an M.B.A. with an accounting concentration.
3. Obtain the 126-hour undergraduate major in accounting and take eight additional courses for a total of 150 semester hours.
4. Obtain the Certificate in Accountancy which offers an evening option as well as an accelerated summer option.
5. If a first degree is in hand, take accounting and business courses in the evening Adult Degree Program or in the traditional daytime program to satisfy the CPA Examination requirements. See the department chair for additional details.

For students not pursuing the CPA credential, the B.B.A. degree with a major in accounting is available by taking the prescribed course work provided under the accounting major details below.

Certificate in Accountancy Program (CAP)

The Certificate in Accountancy Program program offers a combination of on-campus and online instruction to accommodate the variety of employee work schedules.

- Up to 24 credit hours can be taken in an accelerated daytime summer CAP program
- An evening 8-week term program is available each semester, with two terms per semester
- Selected courses are offered online
- To obtain the CAP Certificate, a minimum of 18 hours or 6 courses must be taken at Lipscomb
- Course schedule must be approved by the Director of the CAP program; course substitutions may be made when necessary
- Course sequence should include Financial Accounting, Managerial Accounting, Intermediate Accounting I, with other courses taken in any order after taking Intermediate Accounting I
- Summer CAP does not require Managerial Accounting, but requires Cost Accounting

Please contact the Department of Accounting, Finance, and Economics at 615-966-5738 for additional information.

Required Courses for the CAP certificate:

- AC 2503 Financial Accounting
- AC 2513 Managerial Accounting (Prerequisite: AC 2503)
- AC 350V Intermediate Accounting I (Prerequisite: AC 2503)
- AC 351V Intermediate Accounting II (Prerequisite: AC 3503)
- AC 357V Federal Income Taxation
- AC 4113 Auditing

Elective Courses

- AC 3533 Advanced Accounting
- AC 3563 Cost Accounting
- AC 3553 Accounting Information Systems
- AC 4313 Governmental / Nonprofit Accounting
- AC 4003 Corporate Governance
- AC 4753 Financial Statement Analysis

Requirements for Major

Accounting Major

B.B.A. degree program
Total hours required— 21
(in addition to the B.B.A. requirements)

Specific courses required—

Accounting 350V, 351V, 3563, 357V, 390V, 4113

Three hours selected from:

Accounting 4313 or 4663

Finance 3703, 3913, or 4513

Note: A grade of "C" or higher is required for all upper-division accounting courses included in the major. The course must be re-taken if a grade lower than "C" is received.

Requirements for Minor

Accounting Minor

Total hours required— 15

Specific courses required—

Accounting 2503, 2513, 3503, and any two

additional upper-division accounting courses (6 hours - except for Accounting 390V - Internship in Accounting).

Course Descriptions

Accounting (AC)

2503 Financial Accounting (3) F, SP, SU

The basic introduction to generally accepted accounting principles, covering fundamentals of financial statement preparation based on a user's perspective, financial reporting aspects of cash, receivables, inventories, current and long-term liabilities, equity, partnerships corporations and international transactions. The course should be taken at the sophomore level.

2513 Managerial Accounting (3) F, SP, SU

The second semester of the first-year accounting sequence, introducing managerial accounting topics relevant to internal decision makers. Topics include cost-volume-profit analysis, job order costing, variable costing, short-term decision-making, activity-based costing, operational budgeting, introduction to capital budgeting, analysis of financial statements and reporting of cash flows. The course is taught from the perspective of a user of financial information. Prerequisite: Accounting 2503.

350V Intermediate Accounting I (3) F, SP, CAP (4)

An in-depth examination of generally accepted accounting principles for the external decision maker. An analytical review of the measurement and reporting of financial information, and includes topics such as the conceptual framework of accounting principles, income statement, balance sheet, time value of money, cash and receivables, inventories, fixed assets, depreciation, and intangible assets. This course is normally taken in the junior year following Financial Accounting and Managerial Accounting, and is the first of two semesters of Intermediate Accounting required of all accounting majors. Prerequisite: Accounting 2513, with a "C" or above in both Accounting 2503 and 2513.

- 351V Intermediate Accounting II (3) F, SP, CAP (4)**
The second Intermediate Accounting course in a two-course sequence. Topics include investments, current and long-term liabilities, stockholders' equity, dilutive securities, income taxes, pension and post-retirement benefits, share-based compensation, earnings per share, revenue recognition, accounting changes and errors, and the statement of cash flows. Prerequisite: Accounting 3503, with a "C" or above.
- 3533 Advanced Accounting (3) SU**
Concerns specialized accounting areas such as business combinations, consolidated statements, and foreign currency translation and remeasurement. Prerequisite: Accounting 3503 with a grade of "C" or above.
- 3553 Accounting Information Systems (3) F, SP, SU Online Only**
The study of capturing and processing data for internal decision making, and includes the study of various internal and technology controls. Prerequisite: Accounting 2513, with a grade of "C" or above, Finance 2503, and Junior standing. Course is co-listed with BA 3403 - Enterprise Systems & Analytics.
- 3563 Cost Accounting (3) F, SP, SU**
A study of accounting practices relating to internal product costing and evaluation of profitability. Topics include job order, process, and standard cost systems, break-even analysis, variances, activity-based costing, cash flow analysis and use of ratios. Prerequisite: Accounting 2513 with a grade of "C" or above.
- 357V Federal Income Taxation (3) F, SP, SU, CAP (4)**
A study of income tax laws relating to the individual taxpayer. Prerequisite: Junior standing.
- 3803 U.S. Business, Culture, and Travel to [insert destination] (3)**
This course provides the opportunity to travel to major business centers in the United States, gaining exposure to a business environment not present in Middle Tennessee. Attention will be given to various business segments, trends, governing/advising bodies, cultural influences, political issues, financial disclosures specifically relevant to a large corporation, corporate governance issues, importance of internal control processes and internal auditing, the independent audit examination of a large corporation, marketing and service strategies, management approaches and other factors impacting business decision-making. Domestic trip participation is required.
- 390V Internship in Accounting (1-3) F, SP, SU**
Prerequisite: Permission of professor in charge and department chairman and junior or senior standing. Repeatable for up to six hours, but only if a different experience from first internship. This course may satisfy the SALT Tier II requirement. The VITA (Volunteer Income Tax Assistance) program may be an excellent option for this course.
- 4003 Corporate Governance and Internal Control (3) F**
Corporate governance refers to the myriad of constraints designed to encourage managers and directors act in the interest of shareholders. Topics include choice of legal entity, ownership structure, corporate charter, stakeholders and corporate social responsibility, proxy process, board of directors, CEO compensation, CEO performance evaluation, CEO retention, boundaries of the firm, and international corporate governance. Additional topics will include the design and evaluation perspectives of the control environment, risk assessment, control activities and monitoring. Special attention will be given to the rapidly changing environment affecting corporate management in response to Sarbanes-Oxley Act. Students interested in obtaining the M.Acc. degree should not take this course at the undergraduate level. Prerequisite: Accounting 2513 with a grade of "C" or above and senior standing.
- 401V Independent Study in Accounting (1-3) F, SP, SU**
Independent research of primary and secondary data in a selected topic; topic title to be approved by major professor and academic chair; paper to be kept on file. Prerequisite: advanced standing, proven research ability and approval of academic chair. Repeatable for a maximum of six hours. This course may satisfy the SALT Tier II requirement.
- 4113 Principles of Auditing (3) F- Night, SP- Day, CAP**
A comprehensive review of the attest function as performed by independent public accounting firms. Includes a study of the auditing environment, generally accepted auditing standards, ethics and internal controls. Strong emphasis is placed on the student's ability to communicate across all mediums. Prerequisite: Accounting 3503 with a grade of "C" or above.
- 4313 Governmental and Nonprofit Accounting (3) F, SP, SU Online only**
This course covers the specialized accounting areas in governmental and nonprofit accounting. Prerequisite: Accounting 2513 with a grade of "C" or above.
- 4553 Advanced Federal Income Taxation (3) SP**
Income tax laws relating to corporate formations, including corporate characteristics, capital structure, income tax determination, corporate redemptions, reorganizations, and liquidations, and introduction to international corporate taxation. Students interested in obtaining the M.Acc. degree should not take this course at the undergraduate level. Prerequisite: Accounting 3573, with a grade of "C" or above.
- 4663 Professional Certification Program (3) F, SP**
Examination of accounting standards and procedures required for professional accounting certification. Instructor approval required. A separate course fee is required to cover the cost of the review program and materials. Prerequisite: Eligibility to sit for the CPA Examination during enrollment in the course.
- 4753 Financial Statement Analysis (3) F**
Focuses on corporate financial statement and provides an appreciation for the issues faced by corporate managers as they design a financial reporting strategy. Skills developed in the course include analysis of business performance through financial statements; analysis of earnings quality and other accounting matters; and forecasting earnings and cash flows. The course also offers perspectives on the role of financial reporting and financial statement analysis in the capital markets. Students interested in obtaining the M.B.A. or M.Acc. degree should not take this course at the undergraduate level. Prerequisite: Finance 3503 with a grade of "C" or above and senior standing.

4803 Global Business, Culture, and Travel to [insert destination] (3)

This course gives learners international business exposure and a unique cultural experience with an opportunity to encounter first-hand a global business environment including various business segments, trends, governing/advising bodies, cultural influences, political issues, consequences of exchange rate fluctuations, examination of financial statements prepared under international accounting standards, comparison of financial reporting disclosures between U.S. GAAP rules and international accounting standards, marketing and service strategies, management approaches, and other factors impacting the transaction of business in the chosen destination. International trip participation is required.

Finance and Economics Program

The department offers two tracks of study for students majoring in finance.

Financial Markets Major

The financial markets major, which is similar to finance programs offered by other universities, is designed for students who desire a career in the financial services sector. Lipscomb University graduates of recent years have very successfully competed for jobs with financial institutions and organizations.

Financial Management Major

The financial management major has been created for students interested in working in corporate finance, internal auditing, and related fields and is offered in conjunction with the accounting program.

Professional Designation

Students completing either of the two finance tracks with a GPA greater than 3.0 will meet the education requirements of the MFPTM Master Financial Professional TM Program. Graduates are encouraged to obtain professional credentials, such as the distinguished Chartered Financial Analyst and the Certified Financial Planner designation.

Distinctives of the Finance and Economics Program

Financial Markets Lab

Students have access to a state-of-the-art investment lab located in the Swang Center. This lab provides students with access to investment research software used by professional investment firms.

Tennessee Valley Authority Investment Challenge

Students enrolled in Finance 4813 participate in the TVA Investment Challenge, an annual competition among 24 student teams at 25 schools in the TVA region. Other schools in the competition include Vanderbilt University, the

University of Tennessee, the University of Kentucky and the University of Mississippi. Each team manages an all-equity portfolio of approximately \$500,000. Since Lipscomb began participating in this program in 2003, its teams have won performance awards in eight years, including a first-place finish in 2009 with a 62.3 percent return and a second-place finish in 2010 with a 31.14 percent return. Moreover, the Lipscomb investment team won the "Rolling Three-Year Performance" title for both 2009 and 2010.

Since 2003 the Lipscomb team has earned a compound average annual return of 14.47 percent, compared to a 9.18 percent return for the S&P 500 over the same period. Over the last five years the Lipscomb team has earned a compound average annual return of 27.67 percent, compared to a 17.93 percent return for the S&P 500 over the same period.

Other Events and Programs

- *Annual Career and Networking Event.* Students can network with employers at this event and learn more about career opportunities.
- *Internships.* Students are encouraged to participate in the internship program in which they work in a professional environment while earning academic credit. Many also receive financial compensation.
- *Awards of Excellence and Scholarship.* Juniors and seniors majoring in finance and economics can apply for awards of excellence and scholarships to be given at the annual College of Business Awards Program.
- *Student Center for the Public Trust.* Lipscomb University is home to the inaugural Student Center for the Public Trust chapter, created in 2009 by the NASBA Center for the Public Trust, to focus on education and engaging future business leaders on ethics, accountability and integrity.

Career Opportunities

Financial services in:

- Banking
- Insurance
- Securities
- Real estate
- Personal financial planning
- Corporate financial management

Requirements for Majors

Financial Management Major

B.B.A. degree program

Total hours required—21

(in addition to the B.B.A. requirements)

Specific courses required

Accounting 3503, 3563

Finance 4003, 4513, 4753, 4913

Three hours of electives selected from:

Accounting 3513, 4113

Finance 3603, 3913

Financial Markets Major

B.B.A. degree program

Total hours required—21

(in addition to the B.B.A. requirements)

Specific courses required

Finance 3603, 3703, 3913, 4513, 4813, 4913

Three hours electives selected from:

Accounting 3573

Finance 3643, 4343, 4753

Note: At least a grade of “C” is required for all upper-division finance courses included in the major. The course must be re-taken if a grade lower than “C” is received.

Requirements for Minors

Finance Minor (for business majors)

Total hours required—15

Specific courses required

Finance 3503, 3603, 3703

Management 3013

Electives—3 additional hours in upper-division finance as approved by department chair

General Finance Minor (for non-business majors only)

Total hours required—15

Specific courses required

Accounting 2503

Economics 2503, 2513

Finance 3503

Electives—3 additional hours in upper-division finance as approved by department chair

Economics Minor (for non-business majors only)

Total hours required—15

Specific courses required

Economics 2503, 2513, 3603

Marketing 3503

Elective—3 additional upper-division hours in Finance or Economics as approved by department chair

Course Description

Finance (FI)

2213 Personal Finance (3) Offered on demand

A course designed primarily for non-business majors to cover all aspects of personal financial affairs. This course is not open to junior or senior majors in the College of Business.

2503 Business Analytics (3) F, SP, SU

This course primarily involves teaching of Excel and spreadsheet software in a business context. Practical examples will use analytical spreadsheet tools that are designed to enhance business decision-making. Prerequisites: AC 2503 Financial Accounting.

3503 Principles of Finance (3) F, SP, SU

A study of risk and return relationships, time value of money, capital budgeting, analysis of financial statements, and working capital management. Prerequisites: Accounting 2503, Economics 2503, Finance 2503

3603 International Economics and Finance (3) F

This course will focus on international trade as a sub-theme in the greater concert of the human struggle to survive and prosper that has continued, in essence, unchanged throughout the centuries. The emphasis will be on developing a framework for evaluating trade on a global scale. Prerequisites: Economics 2503 and 2513 with grades of “C” or above.

3643 Financial Planning (3) SP

A study that covers the broad range of financial services topics, including the financial planning process, the time value of money, insurance and risk management, investment tax planning, retirement planning and estate planning. Prerequisite Finance 3503 with a grade of “C” or above.

3703 Equity Investments (3) SP

Covers institutional facts about equity markets, modern portfolio theory and market efficiency, fundamental and technical analysis. Prerequisites: Economics 2513 and Finance 3503 with a grade of “C” or above.

3803 U.S. Business, Culture and Travel to [insert destination] (3)

The course gives learners the opportunity to travel to major business center(s) in the United States, gaining exposure to a business environment not present in Middle Tennessee. Attention will be given to various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches, financial institutions, money and capital centers, and other factors impacting the transaction of business in the chosen destination. Domestic trip participation is required.

390V Internship in Finance (1-3) F, SP, SU

Prerequisite: Permission of professor in charge and department chair and junior or senior standing.

3913 Debt and Derivatives (3) F

This course covers institutional facts about money markets, bond markets, and derivative markets. Also covers asset pricing and portfolio management issues for debt and derivative instruments. Prerequisites: Economics 2513 and Finance 3503 with a grade of “C” or above.

401V Independent Study in Finance (1-3) F, SP, SU

Independent research of primary and secondary data in a selected topic; topic title to be approved by major professor and department chair; paper to be kept on file. Course may be repeated. Prerequisites: advanced standing, proven research ability and approval of academic chair.

4003 Corporate Governance and Internal Control (3) F

Corporate governance refers to the myriad of constraints designed to encourage managers and directors to act in the interest of shareholders. Topics include choice of legal entity, ownership structure, corporate charter, stakeholders and corporate social responsibility, proxy process, board of directors, CEO compensation, CEO performance evaluation, CEO retention, boundaries of the firm and international corporate governance. Additional topics will include the design and evaluation perspectives of the control environment, risk assessment, control activities and monitoring. Special attention will be given to the rapidly changing environment affecting corporate management in response to Sarbanes-Oxley

Act. Students interested in obtaining the M.Acc. degree should not take this course at the undergraduate level. Prerequisite: Accounting 2513 with a grade of "C" or above and senior standing.

4343 Fundamentals of Real Estate (3)

Offered on demand

An introduction to the basics of real estate: markets, law, appraisal, finance and management. Prerequisites: Finance 3503 with a grade of "C" or above.

4513 Managerial Finance (3) SP

An advanced study of the practice and policies applicable to the financial management of business enterprises, including cash flow analysis, lines of credit, the placing of securities and the role of the financial manager. Prerequisite for Finance major: Finance 3703 or FI 4753 or AC 4753. Prerequisite for Accounting major: FI 3503 and AC 3503 with a grade of "C" or above.

4753 Financial Statement Analysis (3) F

Focuses on corporate financial statement and provides an appreciation for the issues faced by corporate managers as they design a financial reporting strategy. Skills developed in the course include analysis of business performance through financial statements; analysis of earnings quality and other accounting matters; and forecasting earnings and cash flows. The course also offers perspectives on the role of financial reporting and financial statement analysis in the capital markets. Students interested in obtaining the M.B.A. or M.Acc. degree should not take this course at the undergraduate level. Prerequisite: Finance 3503 with a grade of "C" or above and senior standing.

4803 Global Business, Culture and Travel to [insert destination] (3)

This course gives learners international business exposure and a unique cultural experience with an opportunity to encounter first-hand a global business environment including various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches, financial institutions, money and capital centers, and other factors impacting the transaction of business in the chosen destination. International trip participation is required.

4813 Investment Fund Management (3) F, SP, SU

Students enrolled in this course are responsible for managing a real portfolio of Tennessee Valley Authority funds. Students also compete in the TVA Investment Challenge against investment teams from other universities in the TVA region. Participating students are responsible for security selection, portfolio balancing and other fund management decisions. Corequisite: Finance 3703. Completion of Finance 3703 before taking this course is strongly recommended.

4913 Special Topics (3) SP

This course covers material that does not fit neatly into the other courses in the finance major, either for conceptual reasons or time constraints. The course will be composed of several distinct content modules. A partial list of possible topics includes: mergers and acquisitions, private equity, hedge funds, financial forecasting, financial modeling, bankruptcy and financial distress, and the valuation of private companies. Prerequisites: Senior standing in one of the finance majors.

Economics (EC)

2503 Principles of Microeconomics (3) F, SP, SU

Basic economic principles in the context of modern society and business, including scarcity and the allocation of resources, supply and demand, the American economy, the global economy, market structures and resource markets.

2513 Principles of Macroeconomics (3) F, SP, SU

Basic economic principles in the context of modern society and government policy; national income accounting, output determination, fiscal policy, the banking system, monetary policy, and international trade. Prerequisites: Economics 2503 and Mathematics 1113 or higher level mathematics course.

3303 Natural Resource Economics (3) SP

Offered even-numbered years

Economic principles applied to the presence and utilization of natural resources. The nature of public policy will also be addressed, with emphasis on how natural resource and environmental issues fit into the greater policy context. This will include deeper study of the meaning of scarcity, cost, property rights, sustainability, and the limits of knowledge. Topics may include the law and economics of water and other minerals, forests, fisheries, energy supply, pollution, and climate change. Prerequisites: Economics 2503 with a grade of "C" or better.

3603 International Economics and Finance (3) F

This course will focus on international trade as a sub-theme in the greater concert of the human struggle to survive and prosper that has continued, in essence unchanged, throughout the centuries. The emphasis will be on developing a framework for evaluating trade on a global basis. Prerequisites: Economics 2503 and 2513 with grades of "C" or above.

390V Internship in Economics (1-3) F, SP, SU

Prerequisite: Permission of professor in charge and academic chair. Open only to juniors and seniors.

401V Independent Study in Economics (1-3) F, SP, SU

Independent research of primary and secondary data in a selected topic; topic title to be approved by major professor and department chair; paper to be kept on file. Course may be repeated. Prerequisites: Advanced standing, proven research ability and approval of department chair

Department of Management & Marketing

Andrew S. Borchers, Associate Professor and Academic Chair
George W. Boulware, Professor
Charles G. Capps, Associate Professor
John E. Crawford, Professor
Allison B. Duke, Associate Professor
C. Ray Eldridge, Professor
Elaine Griffin, Professor
Joseph M. Ivey, Jr., Clinical Professor
Bart Liddle, Assistant Professor

Michael E. Kendrick, Associate Professor
John Lowry, Assistant Professor
L. Randolph Lowry, Professor
Laura Morrow, Assistant Professor
Brad Reid, Professor
Leanne W. Smith, Assistant Professor
Randy A. Steger, Professor
C. Turney Stevens, Professor
Michael Winegeart, Assistant Professor

The mission of the management program is for students to learn the requisite skills, knowledge and Christian perspectives needed to successfully function in the role of CEO, general manager or entrepreneur. Students will be prepared to do well and do good works.

The mission of the marketing program is to prepare students for the challenging task of helping organizations enter into mutually beneficial relationships with customers, whatever their nature. To this end, the major programs of study are designed to acquaint students with business philosophies and activities that enable students to understand the ever-changing consumer groups of many types of organizations, whether profit or non-profit in orientation, manufacturing or services product types, public or private in ownership. Further, students are expected to develop an understanding of important marketing activities through course related activities and then apply and practice those activities through projects, papers and internships.

Distinctives of the Management Major

The College of Business offers a management major with seven concentrations that prepare students for careers in a variety of organizations. The management major requires students to complete an internship in their area of concentration, giving them a competitive advantage in the post-graduation marketplace. With 36,000 employers within 30 minutes of campus, students have a wide range of internship and career options.

International internships are also available. For example, this summer, students will work as interns in Hong Kong with Prudential Asia, a leading life insurer in Asia. As part of the college's expanding emphasis on global business, we expect these exclusive internship opportunities to increase, allowing more Lipscomb students unique international opportunities.

Management faculty are thoroughly prepared as they average 16 years of real-world management experience and eight years of higher-education classroom teaching experience. Management faculty achievements include innovative research that has led to a best paper award from Proceedings of the Academy of Management, regular contributions to the Huffington Post, and a number of published case studies used at schools throughout the world. Faculty facilitate a rich learning environment for students that addresses both current management theory and practical experience.

Other Events and Programs

- **Annual Career and Networking Event.** Students can network with employers at this event and learn about career opportunities.
- **Society for Human Resource Management.** Students can participate in our SHRM chapter and attend professional meetings with business leaders in the area.
- **Internships.** Students are required to participate in the internship program where students work in a professional environment while earning academic credit. Many also receive financial compensation.
- **Entrepreneurship.** Students can participate in a variety of activities surrounding entrepreneurship including new venture pitch competitions and entrepreneurship internships.
- **Mentoring.** Students can elect to participate in an innovative mentoring program with local business leaders.
- **Awards of Excellence.** Juniors and seniors with strong academic records majoring in management are recognized for their excellence at the annual College of Business awards banquet.
- **Student Center for the Public Trust.** Lipscomb University is home to the inaugural Student Center for the Public Trust chapter, created in 2009 by the NASBA Center for the Public Trust, to focus on educating and engaging future business leaders on ethics, accountability and integrity. The mission of the SCPT is to promote ethical thinking in the developing character and conscience of students. The SCPT enables students to develop a real awareness of ethical issues that will provide a moral and ethical foundation for their lives.

Distinctives of the Marketing Major

The College of Business offers majors in marketing and marketing-graphic arts. With a B.B.A. in marketing, you will learn how to bring a product or service from the idea stage to marketplace acceptance and how to gain a competitive edge in the marketplace and in your career. B.B.A. Marketing majors can choose to concentrate their studies in one of four areas—corporate marketing, internet and social media, marketing for entrepreneurs, and professional sales. With the B.S. marketing-graphic arts major, one can combine a passion for creativity with the business knowledge needed for success in today's business world.

Marketing student achievements at Lipscomb University include working on real-life marketing projects with local businesses and firms and finding high quality internships with national firms.

Graduates apply marketing degrees to almost every field imaginable. Students at Lipscomb often find entry or advancement opportunities in advertising agencies, PR firms, corporate marketing departments, marketing research, brand management, sales and customer relationship management. There are also career opportunities in non-profit organizations such as registered charities, arts groups and special interest communities.

Other Events and Programs

- *Annual Career and Networking Event.* Students can network with employers at this event and learn about career opportunities.
- *Internships.* Students are encouraged to participate in the internship program where students work in a professional environment while earning academic credit. Many also receive financial compensation.
- *Awards of Excellence and Scholarship.* Junior and seniors with strong academic records majoring in marketing are recognized for their excellence and scholarship at the annual College of Business awards banquet.

Management Major

The management major includes a common set of three core courses (MG 3403 - Servant Leadership, MG 4403 - Organization Behavior, and MG 390V - Internship) and a choice of four courses from one of seven concentration areas. The College of Business has designed each concentration to give the student a deeper level of knowledge in a specific area and increase placement opportunities. The concentrations include corporate management, entrepreneurship, human resources management, international business, social entrepreneurship, supply chain management, and sustainability management.

Corporate Management

This is a broad-based business major that offers students broad choices of course work. Emphasis is placed on acquiring the knowledge, skills and experience necessary to successfully plan, organize, lead and control large organizations.

Entrepreneurship

Entrepreneurship, the pursuit of value-creating opportunities without regard to the current control of resources, is the foundation of both the economic and philanthropic systems within the United States. Each year in the U.S., the Small Business Administration estimates that 12.7 million “nascent entrepreneurs” attempt to create over six million businesses. Around 600,000 of these businesses will have employees and will account for more than half the net job growth in the U.S. each year. In addition, according to the Urban Institute the number of nonprofit organizations has grown by more than 50 percent in the past 10 years. This concentration focuses on the unique competencies that enable entrepreneurs to succeed in a dynamic but uncertain environment.

Human Resources Management

This concentration focuses on mastery of specific human resources functions including job analysis, recruiting, selection, retention, compensation, training, development, employee relations and employment law. The curriculum emphasizes the strategic role of human resources professionals in today's organizations.

International Business

As the global economy continues to grow, the demand for international business education is higher than ever and expected to increase. The international business concentration prepares students for future management roles with global companies or those companies providing significant expatriate opportunities by increasing understanding of international cultures, business, marketing and finance.

Social Entrepreneurship

Social entrepreneurship through its pursuit of value-creating opportunities in the social sector is fast becoming the foundation of philanthropic systems within the United States. According to the Urban Institute, the number of nonprofit organizations in the U.S. has grown by more than 50 percent in the past 10 years. In addition, many for-profit businesses recognize the need to contribute to improving the society in which they operate. This concentration will focus on the unique competencies that enable entrepreneurs to succeed in social enterprises, whether for profit or not for profit.

Supply Chain Management

Lipscomb University's College of Business in partnership with the Hang Seng Management College in Hong Kong now offers a supply chain management concentration within the B.B.A. in Management. SCM is a dynamic and growing field that focuses on the movement of goods and services from suppliers to end customers. Under our unique partnership, students spend seven semesters on campus in Nashville and one semester in Hong Kong. Instruction is in English, and students have opportunities for travel during their term abroad.

Sustainability Management

Climate change, biodiversity loss, the increasing urbanization of the world's population and the growth and integration of the world's markets all confront local communities with opportunities and challenges. This concentration prepares students with a curriculum that takes into account the interconnectedness of the economy, society and the environment.

Career Opportunities

- Owning and operating a business
- Leadership roles in large multi-national corporations
- Managing small- to medium-sized firms
- Sales and sales management
- Positions with U.S. and international governmental agencies
- Not-for-profit enterprise management
- Human resource management
- Employee training and development
- Employee recruitment and talent management
- Employee relations
- Compensation and benefits
- Sustainability officer
- Sustainability analyst
- Sustainable design professional
- Environmental research assistant
- Sustainability consultant
- Energy efficiency analyst
- Resource manager
- Supply chain analyst or manager

Information Technology Management

Historically, the College of Business has offered a major in information technology management. With changes in the curriculum of the School of Computing and Informatics, the College of Business has discontinued this major. Currently enrolled students can continue to pursue an IT management major. The College of Business urges prospective students to consider majors from the School of Computing and Informatics along with possible minors from the College of Business. Students can also pursue a major in business and a minor in a computing area.

Marketing Majors

For students wishing to prepare for a career in marketing, the College of Business offers the B.B.A. in Marketing degree. This major gives students a course of study that provides students the full complement of conceptual and quantitative courses needed to prepare for marketing positions in business. Students complete a common set of three core courses (MK 3533 - Marketing Management, MK 3553 - Promotional Strategies, and MK 3573 - Consumer Behavior) and a concentration area. B.B.A. Marketing majors can choose to concentrate their studies in one of four areas—corporate marketing, internet and social media, marketing for entrepreneurs and professional sales.

Corporate Marketing

The concentration in corporate marketing provides a student with the broadest and most general study in marketing. Built on a mastery of all core business disciplines, this concentration places its emphasis on acquiring the knowledge, skills and abilities needed to plan and carry out comprehensive marketing strategies.

Internet and Social Media Marketing

The rapid growth of Internet and social media has fundamentally changed the marketing field. The College of Business designed this concentration to give students an understanding of marketing in a digital environment and the skills needed to compete in that environment. This cross-disciplinary concentration combines the strengths of the Department of Marketing, the Department of Art and the School of Computing and Informatics to equip marketing students for this dynamic business environment.

Marketing for Entrepreneurs

For students with an entrepreneurial spirit, this concentration provides skills useful for essential marketing functions of new or startup firms. In combination with an understanding of other business functions developed through the College of Business core courses, students in this concentration will gain many of the skills needed to make new ventures successful.

Professional Sales

Organizations in the marketplace are constantly seeking motivated and talented communicators to take messages about those organizations and their products or causes to current and potential customers or donors. The College of Business has designed sales courses to provide knowledge of the techniques needed for effective communication and selling. The College of Business prepares students through course work and a sales internship to begin a career in the challenging and rewarding world of professional selling.

Marketing-Graphic Arts Major

The Department of Management & Marketing also offers a B.S. degree that combines most of the curriculum of the traditional marketing major with a minor in graphic design (offered by the Department of Art) to prepare students with specific knowledge, abilities and skills to communicate marketing messages in both traditional and digital worlds. The marketing faculty designed this major for students with an interest in marketing who also desire to develop artistic and communication abilities for use in a business setting. In the marketing-graphic arts major, students will typically develop a portfolio of graphic design work that they can present to prospective employers to demonstrate their capabilities.

Career Opportunities

- Assistant product managers
- Marketing research assistants
- Field sales representatives
- Advertising copywriters
- Media buyers
- Retail buyers
- Graphic artists

Requirements for Management Majors

Management Major —

Corporate Management Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements)

Specific courses required—

Management 3403, 390V (3), and 4403

Concentration courses—

Management 4453

Nine hours selected from Management (MG), Marketing (MK), Entrepreneurship (ENT), Operations and Supply Chain Management (OSCM) and Business Administration (BA) that are not otherwise required in the student's degree program.

Management Major —

Entrepreneurship Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements).

Exception- substitute Business Administration 4503 with Entrepreneurship 4503)

Specific courses required—

Management 3403, 4403

Entrepreneurship 390V (3)

Concentration courses—

Entrepreneurship 3543, 4403, 4453, 4543

Management Major —

Social Entrepreneurship Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements).

Exception- replace Business Administration 4503 with Entrepreneurship 4503)

Specific courses required—

Management 3403, 4403

Entrepreneurship 390V (3)

Concentration courses—

Entrepreneurship 3543, 4453

Law, Justice & Society 3513, 4413

Management Major —

International Business Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements)

Specific courses required—

Management 3403, 390V (3), and 4403

Concentration courses—

Business Administration 3603 or Management

4803 (whichever was not taken in the business core)

Marketing 3753

Finance 3603

One foreign language course (minimum 3 hours)

Management Major — Human Resource

Management Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements)

Specific courses required—

Management 3403, 390V (3), and 4403

Concentration courses—

Management 4203, 4453, 4653 and 4753

Management Major—

Supply Chain Management Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements)

Specific courses required—

Management 3403, 390V (3), and 4403

Concentration courses—

12 credit hours (4 courses) in supply chain management taken at Hang Sang Management College in Hong Kong

OR

12 credit hours (4 courses) taken at Lipscomb from the following courses:

OSCM 4103, 4203, 4303, 4403

IT 3423 (with permission of instructor)

Management Major—

Sustainability Management Concentration

B.B.A. degree program

Total hours required— 21 (in addition to B.B.A. requirements)

Specific courses required—

Management 3403, 390V (3) and 4403

Concentration courses—

Economics 3303

Environmental & Sustainability Science 2123, 4213

Three credit hours selected from Environmental & Sustainability Management (ESS), Management (MG), or Marketing (MK)

Note: Students pursuing sustainability management are encouraged to complete science courses in their general education focused on sustainability and environmental science.

Requirements for Majors

Marketing Major —

Corporate Marketing Concentration

B.B.A. degree program
 Total hours required— 21 (in addition to B.B.A. requirements)
 Specific courses required—
 Marketing 3533, 3553 and 3573
 Concentration courses—
 Marketing 3543, 3753 and 4563
 Three hours selected from:
 Marketing 390V (3), 4543

Marketing Major —

Internet and Social Media Concentration

B.B.A. degree program
 Total hours required— 21 (in addition to B.B.A. requirements)
 Specific courses required—
 Marketing 3533, 3553 and 3573
 Concentration courses—
 MK 3403
 IT 1213, 2223
 Three hours from Marketing (MK), Information Technology (IT except 1000 and 2043), Art (AR), Communications (CO, except 1003), or EN3123
 ST: Social Media. Students should consult a departmental advisor in course selection.

Marketing Major —

Marketing for Entrepreneurship Concentration

B.B.A. degree program
 Total hours required— 21 (in addition to B.B.A. requirements)
 Specific courses required—
 Marketing 3533, 3553, and 3573
 Concentration courses—
 Entrepreneurship 3543, 3 hours of upper level division business electives
 Select two of the following three courses
 Marketing 3543, 390V (3)*, 4543
 *Must be an internship in which entrepreneurial activities are a major component of the internship

Marketing Major —

Professional Sales Concentration

B.B.A. degree program
 Total hours required— 21 (in addition to B.B.A. requirements)
 Specific courses required—
 Marketing 3533, 3553 and 3573
 Concentration courses—
 Marketing 3543, 4583, 390V (3)*
 Communication 2133
 *Must be an internship in sales or an internship in which selling activities are a major component of the internship.

Note: Minors, strongly recommended for students completing the B.B.A. marketing major concentration, include Web design and public relations.

Marketing- Graphic Arts Major —

B.S. degree program
 Total hours required— 81* (63 in major, 18 in minor)
 Specific courses required—
 Accounting 2503
 Art 1033, 1043, 1213, and choice of 3 additional courses in graphic design (9 hours)
 Business Administration 3603, 3703, 3803, 4503
 Economics 2503, 2513
 Entrepreneurship 2503
 Finance 2503, 3503
 Management 3013, 3503, 3613
 Marketing 3403, 3503, 3533, 3553, 3543, 3573, 390V (3)
 Mathematics 1113 or higher

*Note: A minor in graphic design is satisfied with this degree program.
 Note: Although Managerial Accounting (Accounting 2513) is not required of B.S. Marketing-Graphic Arts majors, it is highly recommended.*

Requirements for Minors

Any Lipscomb student can minor in entrepreneurship, management, human resource management, social entrepreneurship marketing and Internet and social media marketing. Only non-business majors can pursue a minor in general business.

Entrepreneurship Minor (for all majors)

Total hours required— 15
 Specific courses required—
 Entrepreneurship 2503, 3543, 4403, 4453, and 4543

Management Minor (for all majors)

Total hours required— 15
 Specific courses required—
 Entrepreneurship 2503
 Management 3403, 3503, 4403, and 4453

General Business Minor (for non-business majors)

Total hours required— 15
 Specific courses required—
 Accounting 2503
 Economics 2503
 Entrepreneurship 2503
 Management 3503
 Marketing 3503

Human Resources Minor (for all majors)

Total hours required— 15
 Specific courses required—
 Management 3503, 4203, 4453, 4653, 4753

International Business Minor *(for business majors)*

Total hours required— 15

Specific courses required—

Business Administration 3603 or Management 4803
Finance 3603
One foreign language course (three hours)
Management 4403
Marketing 3753

Social Entrepreneurship Minor *(for all majors)*

Total hours required— 15

Specific courses required—

Entrepreneurship 2503, 3543, and 4453
Law, Justice & Society 3513, 4413

Marketing Minor *(for all majors)*

Total hours required— 15

Specific courses required—

Marketing 3503
Twelve hours of electives in marketing

Internet and Social Media Marketing Minor

(for all majors)

Total hours required— 15

Specific courses required—

Marketing 3403, 3503
Information Technology 1213, 2223

Three hours selected from Marketing (MK), Information Technology (IT except 1000 and 2043), Art (AR), Communication (CO except 1003), or EN 3123 ST: Social Media. Students should consult a departmental advisor in course selection.

International Studies Minor

Total hours required— 17

Specific courses required—

Business Administration 3603

One of the following blocks:

French 2114, 2124
German 2114, 2124
Spanish 2114, 2124

Six hours selected from:

History 3153, 3323, 4053, 4103, 4133, 4143
Political Science 3033, 3133, 3153, 4053, 4133, 4213, 4233

Note: This is an interdisciplinary program of the departments of business administration; foreign languages; and history, politics and philosophy.

Course Descriptions

Management (MG)

3013 Business Statistics (3) F, SP, SU

The purpose of this course is to cover the fundamentals and primary methods of statistical inference. Topics include statistical applications in business, summarizing data by tabular and graphical presentations, descriptive methods, probability theory, probability distributions, sampling distributions, interval estimation, hypothesis testing single and two sample tests, simple regression and correlation, and multiple regression. Emphasis is on problem solving, applications and interpretation of results. Prerequisites: MA 1113, 1123, 1135, 1314 or 2053.

3403 Servant Leadership (3) F, SP, SU

This course blends servant leadership theory with practice. Through a required weekend retreat and active participation in service-learning projects, students will demonstrate the key dimensions of servant leadership. Students will explore the biblical underpinnings of popular best seller business books. Guest speakers, such as well-known entrepreneurs and executives, will discuss their integration of faith and service in the workplace. This course may satisfy the SALT Tier II requirement.

3503 Principles of Management (3) F, SP, SU

A survey of the basic principles involved in the effective management of a business enterprise which includes planning, organizing, coordinating and controlling. Designated sections will fulfill a Bible requirement or SALT Tier II requirement.

3613 Legal Aspects of Business I (3) F, SP, SU

History of legal development, organization of courts and administrative agencies and legal principles involved in the law of agency, including: bailment, bankruptcy, carriers, contracts, corporations, commercial paper, creditor rights, property, mortgages and liens, insurance, partnerships, sales, crimes, torts, trusts and estates. Prerequisite: Advanced standing. Should be taken in sequence.

3803 U.S. Business, Culture and Travel to [insert destination] (3)

The course gives learners the opportunity to travel to major business center(s) in the United States, gaining exposure to a business environment not present in Middle Tennessee. Attention will be given to various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches, and other factors impacting the transaction of business in the chosen destination. Domestic trip participation is required.

390V Internship in Management (1-3) F, SP, SU

Prerequisite: Permission of professor in charge and academic chair and junior or senior standing. Repeatable for a maximum of six hours.

3913 Introduction to US Health Care System (3) Offered on demand

This course will introduce students to the exciting world of health care. The course will expose students to the various organizations and services that comprise the current health care delivery system in the United States and give the students an understanding of how these

various organizations and services come together in an effort to improve and enhance the health of communities and this nation as a whole. Students will explore how the various providers and organizations within the delivery system function and learn of opportunities that may be available for them to pursue in the future. Finally, students will contemplate current issues and ethical dilemmas in health care and begin to explore creative solutions to these daunting issues.

401V Independent Study in Management (1-3) F, SP, SU
Independent research of primary and secondary data in a selected topic, topic title to be approved by major professor. Prerequisites: Advanced standing, proven research ability and approval of academic chair. Repeatable for a maximum of six hours.

4203 Training and Development (3) SP
This course examines training and development in organizations. Emphasis is placed on conducting organization and learner analysis and design, development, implementation and evaluation of the training and development process. Prerequisite: Management 4453.

4403 Organizational Behavior: Global Perspectives (3) F, SP, SU
This course focuses on understanding human behavior, primarily in an organizational context, with the applied purpose of helping the student to become a more effective manager, leader, team member and organizational member in a global setting. Particular emphasis will be given to juxtaposing domestic organizational culture against multiple national and ethnic cultures. In doing so, both the prominent U.S. perspective on the topical areas and the perspectives of other international theorists will be explored. Prerequisite: Management 3503. This course may satisfy the SALT Tier II requirement.

4453 Human Resource Management (3) F, SP, SU
The methods and techniques of personnel management will be examined. Emphasis is placed upon proper procedures in recruitment, selection, motivation, promotion, training, performance evaluation and compensation. An in-depth study of legal aspects of managing people is also covered. Prerequisite: Management 3503. This course may satisfy the SALT Tier II requirement.

4543 Special Topics in [Insert Area] (3)
This course is designed to quickly respond to ever-changing demands of business by housing one time course offerings that will not likely be frequently repeated. Examples would include classes such as labor relations and collective bargaining, negotiation and conflict management, and family enterprising.

4653 Compensation (3) F
A course designed to explore the theory and practice of compensation and reward systems in organizations. Analysis of compensation strategy, structures and competitiveness as well as legal issues in compensation will be addressed. Prerequisites: Management 4453.

4753 Recruitment, Selection and Retention (3) SP
A course designed to explore the theory and practice of staffing and retention of human resources in organizations. Focus is on recruitment, selection and retention of employees in complex organizational environments. Legal issues relating to staffing will also be addressed. Prerequisites: Management 4453.

4803 Global Business, Culture and Travel to [insert destination] (3)
This course gives learners international business exposure and a unique cultural experience with an opportunity to encounter first-hand a global business environment including various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches and other factors impacting the transaction of business in the chosen destination. International trip participation is required.

Business Administration (BA)

3403 Enterprise Systems and Analytics (3) F, SP, SU
In this course, students explore the role of enterprise resource planning and business analytics within and between organizations. Students learn to analyze and improve cross-functional business processes. Emphasis is placed on the use of ERP systems to integrate processes across marketing, finance/accounting, operations and HR management. Students also learn to visualize business performance measures and mine large datasets for actionable information. The course covers commonly used tools including SQL, QBE and data flow diagrams.

3603 Fundamentals of International Business (3) F, SP, SU
Environmental, economic, political and social constraints on doing business abroad as well as management problems and operations of an overseas business are discussed. Prerequisites: Economics 2503 and 2513.

3703 Business Communication (3) F, SP
A study of the process of human communication as a basis for managing organizations. Topics include business writing, report writing, the job-search process, writing for effect and technology-enabled communication. Prerequisites: Lipscomb Seminar 1103 or English 1113, English 1313 and Communication 1003. This course may satisfy the SALT Tier II requirement.

3803 Business Ethics (3) F, SP, SU
Explores individual and collective ethical decision making styles and the corporation as a social moral agent. It is conducted in a seminar style using cross-functional cases from core business disciplines. Prerequisite: Senior standing.

4503 Business Policy and Strategy (3) F, SP, SU
Study of the development of company policy and strategy and the impact of a company's internal and external environment on strategic decisions. Includes case practice in analyzing and formulating business policy and strategy. An integrating experience to be taken in the final semester. Prerequisite: Senior standing, BA 3703, FI 2503, FI 3503, MK 3503, MG 3503. This course may satisfy the SALT Tier II requirement.

Entrepreneurship (ENT)

2503 An Entrepreneur's Introduction to Business (3) F, SP

This foundation course introduces students to business by taking an entrepreneurial perspective to the pursuit of value-creating opportunities. The course examines the entrepreneur's approach to life, including business creation and leadership, approach to innovation and creativity, and the knowledge and skills necessary for these approaches to create value. Students will be able to recognize and evaluate entrepreneurial opportunities. At the end of the course, they will develop a business model for one of those opportunities and understand how that business model can apply to all business endeavors.

3543 Marketing and the Entrepreneurial Enterprise (3) F

Focuses on introducing new products or services to the marketplace, marketing those products and services in an environment of limited resources, and developing marketing processes for growing firms. Students will be able to craft marketing strategies for all stages of enterprise development and be able to implement those strategies in the most resource efficient manner. At the end of the course, they will develop a marketing plan for a start-up venture that has limited resources. Prerequisite: Entrepreneurship 2503 or Law, Justice and Society 3513.

390V Entrepreneurial Internship (1-3) F, SP, SU

Provides students with direct experience in an entrepreneurial environment. Students will demonstrate entrepreneurial ability by sourcing an internship that is approved. (Appropriate internships can be with established or start-up firms in either the for-profit or social sectors. In addition, legitimate student start-up businesses can be appropriate for this internship. In certain circumstances, student entrepreneurs can form teams for this internship. In a team approach, each team member must complete the work hours requirement.) At the end of this course, students will have the experience necessary to be successful in the entrepreneurship capstone course. Students should complete this course in the semester immediately preceding the capstone course. Prerequisite: Senior standing and Entrepreneurship 2503 or Law, Justice and Society 3513.

401V Independent Study in Management (1-3) F, SP, SU

Independent research of primary and secondary data in a selected topic - topic title to be approved by major professor. Prerequisites: Advanced standing, proven research ability, and approval of academic chair. Repeatable for a maximum of six hours.

4403 Financial Management of the Entrepreneurial Enterprise (3) F

Focuses on the flow of cash through an entrepreneurial enterprise as the foundation for understanding the basics of accounting and finance. This course explores the sourcing and conservation of the financial resources the firm needs to be successful. Students, many of whom will not have a background in accounting and finance, will explore the practical business implications gained from financial statements and will learn how to manage the firm's finances to create the best possibility for long-term success. At the end of the course, they will develop a three year financial plan for a start-up venture and determine how to garner the resources needed to start the venture. Prerequisite: Entrepreneurship 2503 or Law, Justice and Society 3513.

4453 Managing the Entrepreneurial Enterprise (3) SP

Focuses on the business processes that an entrepreneurial enterprise needs to implement at start up and on the approach to maturing these processes as the enterprise grows. The course emphasizes human resources processes and surveys legal, operations, technology and service processes that a successful firm must practice. Students will explore which human resources should be employees of the firm and which the firm should outsource, will understand various approaches to compensation and employee organization, and will be able to determine the appropriate legal structure for an entrepreneurial venture. At the end of the course, they will develop an organizational plan for a growing firm through its first three years of existence. Prerequisite: Entrepreneurship 2503 or Law, Justice and Society 3513.

4503 Seminar in Strategy and Business Planning for the Entrepreneurial Enterprise (3) SP

This capstone seminar provides an intensive experiential opportunity to develop a for-profit or social entrepreneurial enterprise business plan. During the seminar, faculty will work with students to identify entrepreneurial opportunities and will lead them in developing a detailed business plan to address that opportunity. At the end of the course, students will have an actionable business plan reviewed by outside advisors. Prerequisites: senior standing and Entrepreneurship 2503 or Law, Justice and Society 3513.

4543 Special Topics in [Insert Area] (3)

This course is designed to quickly respond to ever-changing demands of business by housing one time course offering that will not likely be frequently repeated.

Marketing (MK)

3403 Strategic Internet Marketing (3) F, SP

In this course students learn to use the Internet as a strategic and operational marketing tool. Working hands-on and in teams, students will gain a first person perspective to modern Internet marketing. Topics covered include: Website design and creation, competitive analysis, SEO and SEM, content marketing, branding and strategy, social media, advertising, analytics, customer engagement and various online business models.

3503 Principles of Marketing (3) F, SP, SU

A general survey of the marketing function of the American business community, including an analysis of the roles, methods, costs and problems of the farmer, manufacturer, wholesaler, broker, retailer and other middlemen in entrepreneurship. Prerequisite: Sophomore standing.

3533 Marketing Management (3) F, SP

An advanced study of the practices and policies of sales and marketing management in major business firms; including study of markets, market trends, sales organization, sales planning, sales promotion, advertising and consumer relations. Some attention is also given to salesmanship. Prerequisite: Marketing 3503 with a grade of "C" or above.

- 3543 Professional Selling (3) F, SP**
This course covers the fundamentals of selling, sales theory, sales techniques and sales role playing. The personal qualifications required for effective selling are reviewed. Students are required to give sales presentations. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 3553 Promotional Strategy (3) F, SP**
Analysis of the uses of various promotions in formulating an overall consumer communication strategy. Topics include advertising, publicity and sales promotion, creative strategies, evaluation of results and the advantages and disadvantages of differing types of media and vehicles in reaching the target audience. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 3573 Consumer Behavior (3) F, SP**
A study of the influence of social and psychological factors upon the behavior of buyers. Topics include the consumer decision process and how it impacts marketing strategy. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 3753 Global Marketing (3) SP**
A study of marketing practices in companies operating globally with emphasis on the economic, political and cultural differences among nations. Topics include strategic planning and organizing for international marketing – including pricing, product, promotion and distribution practices. Prerequisites: Marketing 3503 with a grade of “C” or above.
- 3803 U.S. Business, Culture and Travel to [insert destination] (3)**
The course gives learners the opportunity to travel to major business center(s) in the United States, gaining exposure to a business environment not present in Middle Tennessee. Attention will be given to various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches, financial institutions, money and capital centers and other factors impacting the transaction of business in the chosen destination. Domestic trip participation is required. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 390V Internship in Marketing (1-3) F, SP, SU**
Prerequisites: Permission of professor in charge and/or academic chair prior to registration, junior or senior standing and Marketing 3503 with a grade of “C” or above.
- 401V Independent Study in Marketing (1-3) F, SP, SU**
Independent research using primary and secondary data in a selected topic; topic title to be approved by major professor and/or academic chair; paper to be kept on file. Course may be repeated. Prerequisites: Advanced standing, proven research ability and approval of departmental staff prior to registration. Repeatable for a maximum of six hours. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 4543 Special Topics in Marketing (3) F, SP**
This course covers a variety of topics not covered, or only lightly covered, in other marketing courses. Examples of topics that may be included are: e-commerce, relationship marketing, service marketing and business-to-business marketing. Students are expected to complete reading assignments in the various topics and to participate in discussions in a seminar atmosphere. Prerequisite: Marketing 3503 with a grade of “C” or above.
- 4563 Marketing Research (3) SP**
A study of research methods and techniques applicable to problem solving in marketing. Topics include the planning and execution of market research projects, primary and secondary data collection, use of statistical methods, questionnaire design, interview methods, sampling tabulation and report writing. Prerequisites: Marketing 3503, Management 3013 with a grade of “C” or above.
- 4583 Advanced Professional Selling (3) Offered on Demand**
This course introduces advanced topics in selling, including relationship management, negotiation, team selling, time and territory management, customer incentives, the business environment, developing sales presentations and effective closing techniques. Role play and video-taped presentations will be a major part of the course.
- 4803 Global Business, Culture and Travel to [insert destination] (3)**
This course gives learners international business exposure and a unique cultural experience with an opportunity to encounter first-hand a global business environment including various business segments, trends, governing/advising bodies, cultural influences, political issues, marketing and service strategies, management approaches and other factors impacting the transaction of business in the chosen destination. International trip participation is required. Prerequisite: Marketing 3503 with a grade of “C” or above.
- Operations and Supply Chain Management (OSCM)**
- 3503 Operations and Supply Chain Management (3) F, SP**
This course is a survey of operations and supply chain management that relates to both service and manufacturing organizations. The course focuses on four core areas: strategy, process management, supply chain management and supply and demand planning. Additional topics include ethical behavior, forecasting, product and service design, innovation and sustainability, lean operations, quality assurance, global supply chains, and the impacts of technology. Students will use management science techniques in solving problems. Also, students will compete in a simulation to demonstrate course concepts. Prerequisite: MG 3013 Business Statistics and MA 1113, 1123, 1135, 1314 or 2053.

**4103 Advanced Supply Chain and Logistics (3)
Offered on demand**

In this course students gain an understanding of logistics within the context of supply chain management. Attention is paid to a framework of supply chain management and a four-part discussion of logistics components. Students will learn to design inventory, transportation, warehousing, and packaging and handling solutions for organizations. Further, students will examine global supply networks, performance measures and green supply chains. Prerequisite: OSCM 3503 Operations and Supply Chain Management.

4203 Supplier Relationship Management and Negotiation (3) Offered on demand

In this course students gain an understanding of purchasing within the context of supply chain management. Attention is paid to the role of purchasing as part of a firm's material management function. Students will learn how firms select and evaluate suppliers on a global basis, and how firms negotiate purchasing contracts. Further, students will examine global supply networks, performance measures and green supply chains. Prerequisite: OSCM 3503 Operations and Supply Chain Management.

**4303 Quality Management (3)
Offered on demand**

This course examines the principles and techniques for managing and improving quality in manufacturing and service organizations. Students learn the role of quality in a firm's strategic plans and drive for competitive advantage. Topics include quality culture, customer satisfaction, new product design control, incoming material control, process control, and continuous quality improvement. Students will use tools and techniques including quality function deployment, statistical process control, lean six sigma and total quality management. Prerequisite: OSCM 3503 Operations and Supply Chain Management.

**4403 BPM and Change Management (3)
Offered on demand**

This course addresses the methods and techniques required to analyze, design, implement, automate and evaluate business processes. The course further examines organizational challenges in implementing change. Structured along the phases of the Business Process Management life cycle, students learn to analyze organizational performance from a process perspective, redesign processes using value-focused techniques, design workflows and implement them in BPM systems. Upon completion of this course, students will be able to assess the efficiency and effectiveness of an organization from a process perspective, conduct process improvement projects and determine effective methods to address organizational resistance to change. Prerequisite: OSCM 3503 Operations and Supply Chain Management.

Dean Institute for Corporate Governance and Integrity

Turney Stevens, Director
Brad Reid, Senior Scholar

The Dean Institute for Corporate Governance and Integrity was formed in 2008 as a national forum to integrate best practices in board governance with commitments to integrity for public and private company board directors and management.

The institute was funded initially by a generous gift from Hilton and Sallie Dean. Mr. Dean is a former vice chairman of Ernst & Young, LLP, New York, and currently serves as the chairman of the Board of Trustees of Lipscomb University.

Unlike other programs on corporate ethics and governance, Lipscomb's Dean Institute approaches the issues confronting today's board directors and corporate executives from a faith-based perspective and addresses the root issues at play. It seeks to inspire scholarship as well as dialogue at all levels of corporate and institutional life, exploring ways to encourage cultures of integrity and seeking practical methods of more responsible stewardship for all stakeholders. The institute seeks to examine and encourage the guiding principles and factors that inspire honesty and transparency, even when those qualities may appear to have negative short-term consequences.





College of Education

Candice D. McQueen, Dean

Deborah M. Boyd, Associate Dean

Carole English, Director of Teacher Education & Assessment

The College of Education is composed of both the undergraduate and graduate programs. The college's teacher education program, at both the undergraduate and graduate levels, is nationally accredited at the highest level by the National Council for Accreditation of Teacher Education, which has become the Council for the Accreditation of Educator Preparation and serves an increasing number of students each year.

The College of Education plans to continue this tradition of excellence but has set an even greater mission - a mission that includes not only providing exceptional service to the local Lipscomb community, but also exceptional service to the broader community in which we live. At its core, the College of Education is dedicated to improving educational opportunities for all students by educating teacher-leaders, engaging with the community and enriching the lives of future and current teachers. An example of this service for all students is the recent addition of the IDEAL program (Igniting the Dream of Education and Access at Lipscomb). IDEAL is a two-year program providing education and career development for students ages 18-26 with intellectual and developmental disabilities, which encourages friendships and independent skills.

On a daily basis, the College of Education strives to educate teacher-leaders who know how to infuse best teaching practices into every classroom and use data to make instructional decisions and who can influence others to do the same. One of the primary focus areas of the college is community engagement. The college has been awarded multiple grants in recent years to work with current teachers to improve their knowledge and skills in the classroom. Cultural Perspectives is a course taught to give candidates competencies in appreciating the cultural differences in classrooms, developing a sensitivity to the needs of students and families living in poverty, and articulating the meaning and application of social justice. In addition to the fall and spring offerings, the course is also offered during Maymester as a travel course to an Indian reservation in Pine Ridge, South Dakota, or to a school in Lima, Peru.

Off-site learning experiences (i.e. clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the timeframe for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses will result in failure to complete the desired program of study.

Graduate Programs in Education

The College of Education offers master's, education specialist, and doctoral programs. The Master of Education programs are appropriate for those who are already licensed educators and also those seeking a teaching license. The areas of emphasis for M.Ed. degrees are collaborative professional learning, educational leadership administration; English language learning; instructional practice; technology integration; math specialty; reading specialty, teaching, learning & leading (teacher leader); professional learning and coaching in mathematics; applied behavioral analysis; and special education. Because of the diversity of programs offered, individuals holding bachelor's degrees in a variety of disciplines may seek teaching licensure while pursuing their master's degree. The education specialist degree offers programs in collaborative professional learning, educational leadership, English language learning, and reading specialty. The doctor of education program in Learning Organizations and Strategic Change, is a two-year, accelerated degree program with a unique collaborative capstone experience. Graduate education courses have convenient evening, weekend and online classes. For further information, contact the Office of Outreach and Enrollment at 615.966.5173 or kristin.baese@lipscomb.edu.

College of Education

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Department of Education

Junior High, Professor and Director of Undergraduate Education
Carole English, Director of Teacher Education and Assessment
Carrie Abood, Assistant Professor

Sarah Duncan, Assistant Professor
Emily Medlock, Assistant Professor
Marcia C. Stewart, Professor

The mission of the College of Education is to serve and inspire students so that they master the knowledge, attitudes and skills needed to become caring and competent educators in a diverse and technological society. The college offers undergraduate and graduate programs built upon the conceptual framework of C.A.R.E.—Craft of Teaching, Attitudes and Values, Relationships, and Essential Knowledge. Courses are designed to meet Tennessee licensure and the Council for the Accreditation of Educator Preparation [formerly the National Council for Accreditation of Teacher Education] standards.

The College of Education cooperates with various academic departments to offer the PreK-3 early childhood major, K-6 interdisciplinary teaching major, the 4-8 interdisciplinary middle grades teaching major and six programs in grades 7-12 teaching majors (biology, chemistry, English, history, mathematics and physics). Several academic departments also provide preparation for teaching K-12 (art, theatre, health and physical education, instrumental and vocal music). Programs are offered for PreK-12 endorsements in French, German and Spanish. Students in secondary education will be expected to complete a teaching major in the academic department/subject or area in which they plan to teach. One may also elect to complete state requirements for endorsement in additional high school subjects. Undergraduate students completing most programs may work toward either the Bachelor of Arts or the Bachelor of Science degree.

The teacher education program at Lipscomb University is approved by the Tennessee State Board of Education and nationally accredited by CAEP. The recent accreditation visiting team recommended the passage of all standards with no areas for improvement cited. The state team recommended approval of all programs with no weaknesses.

Distinctives of the Undergraduate Education Department

Because of Lipscomb's location in the metropolitan Nashville area, students majoring in education have available to them a wealth of professional resources and opportunities. Lipscomb education majors enjoy a variety of placements in schools in Metro Nashville and neighboring counties. Special opportunities include magnet schools and schools with large English language learner populations. Interdisciplinary education majors (PreK-3, K-6, 4-8) also earn English as a Second Language endorsement as a required part of their program. Programs are developmental in nature. Following admission into teacher education, candidates enroll in proficiency-based courses in which classroom teaching and clinical placements in area schools are fully integrated. Members of the education faculty invest their time and experience in the professional lives of their students, providing opportunities to learn and grow beyond the Lipscomb classroom.

Since the department emphasizes working with diverse populations and a variety of stakeholders, students visit and participate in area school activities throughout their education at Lipscomb. In addition, our students and faculty jointly make alternating annual trips in May to work in a

two-week program with Native American students in South Dakota or with Spanish-speaking students in Lima, Peru. This program is offered in the two locations as part of the Cultural Perspectives course. Overseas student teaching opportunities are also available through the Christian College Teacher Education Coordinating Council. For more information, contact the director of student teaching.

Lipscomb University's College of Education, named by the Tennessee Higher Education Commission's Teacher Preparation Program Report Card as best in the state at preparing teachers, is a leader in the movement to support educational progress in Tennessee.

In Spring 2012, the Ayers Institute for Teacher Learning and Innovation was launched to define and design competencies around teacher leadership. The Ayers Institute will be working closely with the Tennessee Charter School Incubator in developing sustainable leadership programming. Working with the Tennessee Higher Education Commission, the institute will also be working to collaborate with institutions of higher education to develop and implement the new common core curriculum standards across the state. These efforts are designed to transform teaching and learning in pre-service teacher education in K-12 programs.

The Lipscomb College of Education has been consistently impacting schools across the state in significant ways. The college is the teacher professional development provider for the first public-school-to-charter-school transformation in Tennessee and has received more than \$2.5 million of competitive grant monies to strengthen P-12 math and science instruction for local in-service teachers. Additional awards include four Race to the Top grants promoting STEM (science, technology, engineering, and math) and conducting professional development for teachers in Davidson, Cheatham, Williamson, Sumner and Robertson counties in Tennessee.

Career Opportunities

A teacher education degree prepares one for several types of service:

- Teaching in elementary and middle schools
- High school teaching
- K-12 teaching
- Consultants to publishers and industry
- Liaison between community services and schools
- Educational positions in industry
- Teaching in foreign countries
- Adult education
- Child-care centers
- Church kindergartens
- Administrators of children's homes
- Educational directors for local congregations
- Bible school teachers
- A teaching degree also serves as a foundation for rearing children in the home

Teaching Majors

Admission Requirements

The initial step for all students interested in being admitted to the Teacher Education Program is to enroll in and successfully complete Education 2313 Schooling in America, which includes a required weekend retreat at the beginning of the course.

Specific admission criteria include successful completion of both Lipscomb Seminar and English 1313 courses; Education 2313 Schooling in America; Core Academic Skills for Educators test, or ACT/SAT; a 2.75 grade-point average; an interview; references; an autobiography and beginning of a professional portfolio; evidence of mental, physical, social, emotional, and moral maturity; approval by the Teacher Education Council; and a clean criminal background and fingerprinting check.

Upon successful completion of the above requirements, a student may be formally admitted to the program.

The capstone experience for students seeking a teacher education major and licensure is the successful completion of Clinical Practice III (student teaching), the student teaching seminar, a professional portfolio assessment, a teaching unit that documents student learning and an exit presentation.

Licensure Requirements

Students planning to teach in states other than Tennessee should contact the College of Education for requirements which may vary from those in Tennessee and at Lipscomb. In order to be recommended for licensure by Lipscomb University a student must complete the following requirements and must pass all PRAXIS II exams related to their major area. (These requirements may be changed as mandated by the State of Tennessee.)

Note: No grade below a "C" is acceptable in a professional education course. A minimum grade point average of 2.75 must be maintained.

Secondary and K-12 Teacher Education Programs

- I. General Education Courses Required for Secondary and K-12 Teacher Education Programs
 - Biology 1003 or LUMS 2003
(Biology majors see degree plan.)
 - Chemistry 1013 or Physics 1003 or 1013 or LUMS 2013
(Science teaching majors take both chemistry and physics; chemistry and physics majors take Chemistry 1113.)
 - Communication 1003
 - English 1313 and 2153 or 2163 or LULT 2043
(English teaching majors take 2153)
 - History 1013 or 1023 or LUHI 2013
(History teaching majors take both 1013 & 1023)
 - Lipscomb Seminar 1103
 - Mathematics 1043 or 1113
(Math and physics majors take 1314; chemistry majors take 1135)
 - Physical Education 2012
 - Psychology 1113 and 3243
- II. Core Professional Education Courses for Secondary and K-12 Teacher Education Programs
 - Education 2313, 3323 (except music), 3343, 3636, 3649, 4403, 474C or 475C
 - Teaching methods course in respective department
 - Note: No grade below "c" will be accepted for any professional education course. For other academic requirements, consult the Teacher Education Handbook.*
- III. Specialized Professional Courses
 - See each major. *Note: Students must take and pass the PRAXIS II national teacher's exam(s) in order to be recommended for licensure*

IV. Requirements for Specific Secondary and K-12 Teaching Majors
Refer to each department's section for teaching major requirements.

- Visual arts teaching major
- Biology teaching major
- Chemistry teaching major
- English teaching major
- French teaching major
- German teaching major
- Health and physical education teaching major
- History teaching major
- Mathematics teaching major
- Music teaching majors (instrumental and vocal)
- Physics teaching major
- Spanish teaching major
- Theatre teaching major

The program in teacher education is developmental in nature. It is outlined as a tier system and must be followed closely. Exceptions must be approved by the director of teacher education.

Tier 1– Exploring the Profession
Education 2313

Tier 2– Knowing about the Profession
(Admission to the program required)
Education 3343, 3636
Education 3363, 3404, 3533 (PreK-3, K-6 only)
English 3043
Psychology 3243

- Tier 3– Modeling the Profession
Education 3649
Education 3476 (PreK-3, K-6, 4-8 only)
Foreign Language 4514 (Pre K-3, K-6, 4-8 only)
Teaching methods course (K-12 or 7-12)
- Tier 4–Practicing the Profession
Education 4403, 471C (Pre-K), 472C (K-6),
473C (4-8), 474C (7-12), or 475C (K-12)

PreK-3 Licensure Program

General Studies: Interdisciplinary Teaching Major (licensure PreK-3)

B.A. or B.S. degree program

- I. General education for pre K-3 licensure program
Bible 1072, 1083, 1093 and 3213 or 3433 or 4213,
Engagements, plus 3 hours embedded in
Education 4403
Biology 3612
Communication 1003
English 1313, 2153 or 2163, or LULT 2043
History 1013 or 1023 or LUHI 2013
Lipscomb Seminar 1103 or English 1113
Mathematics 1043, 1053, 3053
Physical Education 2012
Integrated Science LUMS 2003, 2013
- II. Professional education for pre K-3 licensure program
Education 2313, 3343, 3476, 3636, 3649, 4403, 471C
Foreign Language 8 hours of a foreign language and 4514



- III. Interdisciplinary major
 Art 3513 or Music 3203 or Theatre 3413
 Education 3343, 3363, 3404, 3533
 Family and Consumer Science 2413, 3451
 Physical Education 3323
 Psychology 1113, 3243
 Social Work 3313

K-6 Licensure Program

General Studies: Interdisciplinary Teaching Major (licensure K-6)

B.A. or B.S. degree program

- I. General education for K-6 licensure program
 Bible 1073, 1083, 1093 and 3213 or 3433 or 4213,
 Engagements, plus 3 hours embedded in
 Education 4403
 Communication 1003
 English 1313, 2153 or 2163, or LULT 2043
 History 1013 or 1023 or LUHI 2013
 Lipscomb Seminar 1103
 Mathematics 1043, 1053, 3053
 Physical Education 2012
 Psychology 1113
 Integrated Science LUMS 2003, 2013
- II. Professional education for K-6 licensure program
 Education 2313, 3533, 3476, 3636, 3649, 4403, 472C
 Foreign language 8 hours of a foreign language and 4514
- III. Interdisciplinary major
 Art 3513 or Music 3203 or Theatre 3413
 Education 3343, 3363, 3404
 English 3013
 History 2213 or 2223 and 3323
 Physical Education 3323
 Psychology 3243

4-8 Licensure Program

General Studies: Interdisciplinary Middle Grades Teaching Major (licensure 4-8)

B.A. or B.S. degree program

- I. General education for 4-8 licensure program
 Students may seek middle grades licensure (grades 4-8 endorsement) by majoring in the general studies interdisciplinary middle grades teaching major.
 Bible 1073, 1083, 1093 and 3213 or 3433 or 4213, Engagements, plus 3 hours embedded in
 Education 4403
 Communication 1003
 English 1313, 2153 or 2163, or LULT 2043
 History 1013 or 1023 or LUHI 2013
 Lipscomb Seminar 1103 or English 1113
 Mathematics 1043
 Physical Education 2012
 Psychology 1113, 3243
 Integrated Science LUMS 2003, 2013
- II. Professional education for 4-8 licensure program
 Education 2313, 3323, 3476, 3636, 3649, 4403, 473C
 Foreign language 8 hours of a foreign language and 4514

- III. Interdisciplinary major
 Education 3343
 English 3013
 History 2213
 Mathematics 1053, 3053
 Physical Education 3323

Note: Praxis II Required: All content area tests must be passed BEFORE student teaching.

IV. Areas of specialization

Students must choose 2 of the following areas of specialization:

- Language Arts (9 hours) - English 3053;
 English 2113, 2123, 2133 or 2143;
 Education 3723
 Mathematics (10 hours) - Math 1123, 1141, 2183,
 Education 3533
 Science (10 hours) - Biology 2213, 3612, 3712,
 Physics 1003
 Social Studies (9 hours) - History 1013 or 1023;
 History 2223, 3323

Requirements for Minor

Education Minor

The initial step for all students interested in the education minor is to enroll in and successfully complete Education 2313, Schooling in America. All education minors must maintain a 2.75 GPA and have at least an ACT score of 22 or acceptable scores on the Core Academic Skills for Educators test (or PRAXIS I). In addition, education minors will complete a professional portfolio as directed in their education courses.

Total hours required— 18

Specific courses required—

- Education 2313, 3323, 3343, 3636
 Psychology 3243

English as a Second Language (ESL) Endorsement

Students seeking an initial teaching license (K-12 or 7-12) can also seek an ESL (English as a Second Language) endorsement to add to the initial teaching license by successfully completing the following requirements:

- 8 hours of a foreign language
 Foreign Language 4514

Note: Praxis II Required: In addition, students seeking the ESL add-on endorsement will have to pass the ESL Praxis II exam and complete a field placement in an ESL/ELL classroom during student teaching.

Requirements for Non-Teaching Major

General Studies: Interdisciplinary Non-teaching Major

B.A. or B.S. degree program

General education hours required—

Bible 1073, 1083, 1093 and 3213 or 3433 or 4213,
Engagements, plus 3-hour Bible elective
Biology 1003 or LUMS 2003
Chemistry 1013, Physics 1003 or 1013, or
LUMS 2013

Communication 1003
English 1313, 2153 or 2163, or LULT 2043
History 1013 or 1023, or LULT 2013
Lipscomb Seminar 1103 (or English 1113)
Mathematics 1043,
Physical Education 2012
Psychology 1113, 3243

Major courses required—

Art 3513, Music 3203, or Theatre 3413
Education 2313, 3343, 3363, 3404, 3476, 3533
English 3013
Foreign language (8 hours of a foreign language)
History 2213 or 2223, 3323
Mathematics 1053, 3053
Physical Education 3323

Twenty-one hours of elective courses

Note: A minor must be selected from one of the following areas: art, drama, ethics, French, German, Greek, Hebrew, music, philosophy, Spanish, theology, or education.

Course Descriptions

Education (ED)

2313 Schooling in America (3) F, SP

This course offers an orientation to the teacher education program at Lipscomb as well as to the social, historical and philosophical foundations of American education. The course is the prerequisite to all other education courses and is to be taken by the end of the sophomore year. This course must be taken at Lipscomb University. Students are required to attend a mandatory teacher education initiation retreat early in the semester. The specific days(s) will be listed when registering for the class.

3323 Planning for Learning (3) F, SP

This course is designed to prepare 7-12 and K-12 majors for the realities of today's classroom, with a specific focus on procedural practices for management, Common Core Curriculum standards, transforming standards into learning objectives, differentiating instructions, and writing and executing a lesson plan to teach and assess learning. Students in this course will work collaboratively with peers and with in-service teachers to create and adjust lesson plans appropriately. Technology use in instruction will be explored, as well as the importance of formative and summative assessments, collaborative team work/professional learning communities, and reflection and modification of teaching practices. A field experience is included.

3343 Cultural Perspectives in Education (3) F, SP, SU

This course is to develop an appreciation of the cultural differences in classrooms; a sensitivity to the needs of students and families living in poverty; and relationships with peers, teachers and students in schools. Significant time will be spent in school settings. Journal writing, readings and reflection papers will be assigned to develop reflective practitioners. The course may be taken during Maymester as a trip into a culturally diverse environment. Travel fee will be extra. This course offers Bible credit in the study of Micah and James as candidates articulate the meaning and application of social justice. Prerequisite: Admission to the program.

3363 Books: Passport to Adventure (3) F, SP

This course is an in-depth look into how to create a literature-based classroom that integrates language and learning. The course will inform pre-service teachers about how to use trade books to support inquiry and learning in all areas of the curriculum. In addition, the course will expose pre-service teachers to all genres of children's literature as well as equip them with ideas about how to use these books to conduct read-alouds, book talks, mini-lessons, enrichment in content areas and as a model for classroom writing instruction and writer's workshop. Prerequisite: Admission to the program.

3404 Primary Education (4) F, SP, SU

Focuses on designing developmentally appropriate activities that meet cognitive, socio-emotional and physical needs of primary learners. Additional topics of study are emergent literacy, learning centers and parent involvement. Students will design a back-to-school notebook with detailed procedures for the beginning of a school year. Includes a field experience in a primary classroom. Prerequisite: Admission to the program.

3476 Reading and Language Arts (6) F, SP

This course is an in-depth look into research on how children become literate and the practical implications of this research for teachers. It focuses on equipping future teachers with the theoretical knowledge and pedagogical skills that will help them make appropriate instructional decisions as they teach children to become adept readers and writers. Assessment and diagnosis of the literacy strengths of a student and appropriate remediation techniques will be developed. A major field experience is required. Should be taken later in program. Prerequisite: Admission to program.

3533 Math Methods (3) F, SP

This course will create proficiency in principles of learning and teaching mathematics to diverse populations of elementary and middle school students. Candidates will learn to prepare instructional materials and create laboratory experiences that relate principles to practice. Prerequisite: Admission to the program.

3636 Clinical Practice I (6) F, SP

This course is designed to develop competencies in pre-service teachers related to lesson planning, teaching with a focus on differentiation and the exceptional child, classroom management, communication with school stakeholders, using technology in teaching and management, and becoming a reflective practitioner. This course includes a long-term field experience in which students will work in a diverse middle school. Prerequisites: Education 3323, 3404, 3476, 3533 as program requires and admission to program.

3649 Clinical Practice II (9) F, SP

Analysis of various methods and the basic factors in the teaching-learning process are considered in light of research-based teaching strategies and principles of learning in this course. The focus is on both short and long term instructional planning that incorporates formative and summative assessment and modifications to maximize student learning. Attention is given to adapting lessons for students with diverse needs, including those for whom English is a second language. This course includes a long-term field experience in which students will work in an elementary or high school, according to program. Prerequisite: Education 3636.

3723 Integrated Literacy (3) Offered on demand

This course is an in-depth look at using a variety of strategies for integrating reading and writing across the curriculum and developing vocabulary and comprehension skills. It will help students understand how to identify and explore quality literature. It will also focus on using informational and exemplary texts to teach content, as well as evidence-based writing. Lastly, the course will address scaffolding and differentiation strategies for struggling readers. Prerequisite: Education 3476.

4403 Student Teaching Seminar (3) F, SP

Taken concurrently with Clinical Practice III, this course meets at the beginning, middle and end of the semester in all-day sessions. It serves as a professional development and discussion time together. The primary focus of the seminar is on creating units of study and analyzing formative and summative assessments in the units as taught in the Clinical Practice III placements, developing a final showcase portfolio for presentation, and developing and being evaluated on the C.A.R.E. framework in both placements. Students will be required to attend all sessions, provide required documentation and participate in activities related to each major objective. Corequisite: Education 471C, 472C 473C, 474C or 475C.

450V Independent Study in Education (1, 2, 3) F, SP, SU

This course is designed to offer variable credit of one, two or three hours according to individual need. Permission of academic chair required. Prerequisite: Admission to program.

46nV Special Topics (1-3) Offered on demand

Selected topics from the field of education are offered. The format of the course is determined by the topic. Field experiences may be required. Prerequisite: Permission of instructor.

471C Clinical Practice III - PreK-3 (12) F, SP

This course is the capstone experience required for all PreK-3 education majors - student teaching. Observation and directed teaching for a minimum of 15 weeks in assigned public schools are completed under the supervision of cooperating teachers and a university supervisor. Each student is placed in two varying classroom settings. The student teaching application package must be submitted no later than the last day of exams two semesters prior to student teaching. The accompanying seminar serves to guide candidates through the student teaching experience. Prerequisite: Education 3649, application approval, and admission to the program. \$400 fee. Corequisite: Education 4403.

472C Clinical Practice III - K-6 (12) F, SP

This course is the capstone experience required for all K-6 education majors - student teaching. Observation and directed teaching for a minimum of 15 weeks in assigned public schools are completed under the supervision of cooperating teachers and a university supervisor. Each student is placed in two varying classroom settings. The student teaching application package must be submitted no later than the last day of exams two semesters prior to student teaching. The accompanying seminar serves to guide candidates through the student teaching experience. Prerequisite: Education 3649, application approval and admission to the program. \$400 fee. Corequisite: Education 4403.

473C Clinical Practice III - 4-8 (12) F, SP

This course is the capstone experience required for all 4-8 education majors - student teaching. Observation and directed teaching for a minimum of 15 weeks in assigned public schools are completed under the supervision of cooperating teachers and a university supervisor. Each student is placed in two varying classroom settings. The student teaching application package must be submitted no later than the last day of exams two semesters prior to student teaching. The accompanying seminar serves to guide candidates through the student teaching experience. Prerequisite: Education 3649, application approval and admission to the program. \$400 fee. Corequisite: Education 4403.

474C Clinical Practice III - 7-12 (12) F, SP

This course is the capstone experience required for all 7-12 education majors - student teaching. Observation and directed teaching for a minimum of 15 weeks in assigned public schools are completed under the supervision of cooperating teachers and a university supervisor. Each student is placed in two varying classroom settings. The student teaching application package must be submitted no later than the last day of exams two semesters prior to student teaching. The accompanying seminar serves to guide candidates through the student teaching experience. Prerequisite: Education 3649, application approval and admission to the program. \$400 fee. Corequisite: Education 4403.

475C Clinical Practice III - K-12 & PreK-12 (12) F, SP

This course is the capstone experience required for all K-12 education majors - student teaching. Observation and directed teaching for a minimum of 15 weeks in assigned public schools are completed under the supervision of cooperating teachers and a university supervisor. Each student is placed in two varying classroom settings. The student teaching application package must be submitted no later than the last day of exams two semesters prior to student teaching. The accompanying seminar serves to guide candidates through the student teaching experience. Prerequisite: Education 3649, application approval and admission to the program. \$400 fee. Corequisite: Education 4403.



The Raymond B. Jones College of **Engineering**

Justin Myrick, Dean

A. Fort Gwinn, Jr., Associate Dean

Engineers solve problems. They apply science, mathematics and creativity to invent, design, test, build, deliver, operate, and maintain engineering systems that meet the needs of society. In the latter half of the 20th century, engineers developed the personal computer, the space shuttle, artificial hearts, cellular phones and many other “high-tech” products. The opportunities to use technology for the benefit of 21st century society will be even greater.

The Raymond B. Jones College of Engineering provides students with an excellent opportunity to prepare for an exciting engineering career in an educational environment that also encourages Christian character and spiritual growth. In creating this opportunity for students, Mr. and Mrs. Raymond Jones have built upon the original goals of Lipscomb University that “such other branches of learning may be added as will promote usefulness and good citizenship among men.” In keeping with that goal, graduates of the Raymond B. Jones College of Engineering will be challenged to use their engineering education for the betterment of society, their profession and their faith community.

The Raymond B. Jones College of Engineering consists of the following academic departments: Department of Civil and Environmental Engineering, Department of Electrical and Computer Engineering and Department of Mechanical Engineering and the M.S. program in Engineering Management (see Graduate Catalog). The College offers three majors that lead to a Bachelor of Science degree from Lipscomb University. The three majors include two, mechanical engineering and electrical and computer engineering, that are accredited by the Engineering Accreditation Commission (EAC) of ABET, <http://www.abet.org>. EAC evaluation of our newest undergraduate degree, civil engineering, was conducted during the fall of 2013, and the results of that evaluation will be received in Aug. of 2014.

Off-site learning experiences (i.e. CO-OP and internship) are required in many courses of study at Lipscomb and strongly recommended in others. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver’s licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the timeframe for admission into the respective program and placement into these sites.

Fundamentals of Engineering Exam Requirement

Licensure is an important part of the engineering profession; therefore all undergraduate students planning to graduate from an engineering program within the Raymond B. Jones College of Engineering are required to show proof of having taken the Fundamentals of Engineering Exam in their chosen discipline prior to receiving a degree.

The Raymond B. Jones College of Engineering

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The Raymond B. Jones College of Engineering

The mission of the engineering programs at Lipscomb University is to prepare its students for engineering careers guided by a Christian understanding of the mission, methods and structure of their profession and of the world they will serve.

Engineering Courses

Courses bearing the ENGR prefix are courses designed for multiple engineering majors, although they may be required within certain majors. These courses may be taught by faculty members from any department in the Raymond B. Jones College of Engineering, and certain courses may be taught by faculty members in other colleges.

Course Descriptions

Engineering (ENGR)

- 0110 Professional Development and Networking (0) F, SP**
This course provides opportunities for students to participate in professional societies and off-campus professional development as well as networking opportunities. All full-time engineering students in the Raymond B. Jones College of Engineering are required to be enrolled in ENGR 0110 every semester. Lecture/lab, 1 hour.
- 1113 Introduction to Engineering (3) F**
An introduction to the profession and practice of engineering. The lecture portion presents the history, role, disciplines and functions of engineering ethics and life-long learning. A series of studio/laboratory experiences exposes students to the three major disciplines in engineering—Civil, Electric/Computer, and Mechanical—combining elements of active learning, laboratory experience and lecture. Corequisite: Mathematics 1123. Combined lecture, 1 hour; Studio/Laboratory two 2-hour labs.
- 3122 Appropriate Technology in Engineering Missions (2) SP**
The purpose of this course is to prepare students biblically, culturally and with engineering skills to effectively use appropriate technologies to serve those in developing countries in a Christian mission situation and to develop in each student the vision for living a missional lifestyle as Christian engineers. The student commits to being involved in at least one engineering mission trip. Prerequisites: Physics 1013, 1224 or 2424 and Chemistry 1013, 1113 or 1144. Lecture, 3 hours. This course may satisfy the SALT Tier II requirement.
- 3303 Applied Mathematics (3) F**
Partial differential equations; line integrals; Green's, Stoke's and Divergence theorems; Fourier analysis; elementary matrices; applications of matrices; and some complex variables. Prerequisites: Mathematics 3133. Lecture, 3 hours.
- 3513 Introduction to Control Systems (3) F**
Classical feedback control systems for continuous time systems. Block diagrams and performance and stability criteria. Root locus, frequency methods and state space approach. Prerequisites: Electrical and Computer Engineering 2013 or 2214; Mechanical Engineering 2013 or 2123; Mathematics 3133. Lecture, 3 hours.
- 395V Topics in Engineering (1-5)
Offered on demand**
Selected topics from an engineering discipline in either lecture- or laboratory-oriented format, depending on the specific topic selected. Course may be repeated for credit. Prerequisite: Consent of instructor.
- 3980 Engineering CO-OP (0)**
Co-op work experience with an engineering employer, pre-approved by the College of Engineering. The student is required to make periodic reports during the semester to a designated engineering faculty. Grades will be awarded on a pass/fail basis. Prerequisites: Approval by department chair.
- 481V Engineering in the Developing World Practicum (1-3)**
Engineering mission trip project participation. Planning design and construction of engineering systems to meet the needs of people in developing nations. Credit received depends on the degree of involvement and the level of responsibility in the engineering project. This course may be used as a technical elective in engineering curricula if there is a high level of engineering design responsibility and you receive prior approval from your engineering department head. Prerequisite: Consent of instructor.



4942 Design Process Management (2) F

This course is intended to equip the student with a basic understanding of project management techniques, including work breakdown structures, scheduling and resource management. It will also incorporate topics related to environment, reliability and safety. As part of this course, the students will develop the proposal and concept for the project to be completed during interdisciplinary design project. Corequisite: Mechanical Engineering 3812, Electrical and Computer Engineering 4823, or Civil and Environmental Engineering 4XX3 (any CEE senior level design course). Lecture/lab/recitation, 3 hrs.

4953 Interdisciplinary Design Project (3) SP

A major, realistic design experience based on the knowledge and skills acquired in prior and concurrent course work, and requiring teamwork involving more than one discipline. The project begins with a performance specification formulated by the instructor. The student team must carry out the design, generate professional design documentation, including fabrication and test drawings and specifications, and produce and test a prototype product. Prerequisite: Engineering 4942 or consent of instructor. Laboratory, 9 hours.

4991 Engineering Seminar (1) F

A course intended to provide students with a broader view of the engineering profession in the context of society. This is an interdisciplinary course in which a variety of topics will be presented and discussed. Topics will include contemporary issues in engineering, ethics, social and professional responsibilities, life-long learning and selected technical topics. Corequisite: Engineering 4942 or consent of instructor. Seminar, 1 hour.

Department of Civil and Environmental Engineering

Joe M. Morgan, Professor and Academic Chair

David L. Davidson, Assistant Professor

Chris A. Gwaltney, Visiting Professor

Mark P. McDonald, Assistant Professor

The Department of Civil and Environmental Engineering is responsible for the curriculum leading to the Bachelor of Science degree with a major in civil engineering.

Building. It's what civil engineers do. Skyscrapers, bridges, roads, fresh water systems, wastewater treatment plants. Civil engineers have designed and built the structures on which society relies from biblical times until today. As the disciples passed the temple in Jerusalem, one of them said to Jesus, "Look, Teacher! What massive stones! What magnificent buildings!" (Mark 13:1). Then as now, magnificent buildings were designed and massive stones were positioned by civil engineers.

Graduates of Lipscomb's civil engineering program will be ready for a wide spectrum of civil engineering job opportunities or for further study in graduate school. Students will be introduced to several civil engineering sub-disciplines (e.g. structural engineering, geotechnical engineering, environmental engineering, transportation engineering, construction engineering, hydrology and hydraulic engineering) and explore at least four of those areas in some depth. Even more importantly, civil engineering students will "learn how to learn" and be well prepared for the life-long learning that will sustain them through a professional career filled with technological advancement.

Distinctives of the Civil & Environmental Engineering Department

For several years Lipscomb University has been a national leader in the design and construction of engineering projects for use in developing nations and in support of mission activities within those countries. Engineering mission projects have included pedestrian bridges in Guatemala, radio towers and a water tower in Honduras, fresh, clean water supplies to several villages in Guatemala, improvements to a seasonal camp in the Dominican Republic, etc. Civil engineering students at Lipscomb will have unique opportunities to use the engineering skills with which God has blessed them to help other people.

Civil engineering students at Lipscomb also have excellent opportunities to pursue engineering internships and cooperative education positions. A large number of civil engineering companies have major engineering design and consulting practices in Nashville and Middle Tennessee and actively recruit civil engineering students at Lipscomb for summer internships.

Program Educational Objectives for Civil Engineering

Civil engineers conceive, plan, design, construct, operate and maintain facilities and systems that serve the basic needs of our society. The educational objectives for the civil engineering program at Lipscomb University are to prepare and produce graduates who, after the first few years of their professional career, have been successful in:

1. The practice of engineering by:
 - maturing as professionals employed in industrial, governmental, educational or consulting positions with ever increasing responsibilities and influence;
 - being recognized as individuals whose interaction with their employers, coworkers and neighbors is characterized as considerate, moral and ethical;
2. The acquisition of new knowledge and skills by:
 - earning advanced degrees in engineering or related fields;
 - actively participating in ongoing professional development;
 - refining and adapting their fundamental skills to keep pace with a rapidly changing environment;
3. The application of their talents to serving others by:
 - being actively engaged in programs and initiatives which leverage their engineering competence and other skills in ways beneficial to their community, their church, their profession and to society as a whole.

Career Opportunities

Civil engineers provide the infra-structure (water supply and distribution, roads, bridges, wastewater collection and treatment, flood control, etc.) on which every community relies. For that reason, civil engineering job opportunities have traditionally been both strong and stable. A civil engineering degree also provides a solid foundation on which one can continue learning. In addition to pursuing master's or doctoral degrees, civil engineering graduates are exceptionally good candidates for advanced degrees in business and law.

Employment opportunities for those with a civil engineering degree are numerous and include careers in areas such as:

- Construction engineering and management
- Environmental engineering
- Geotechnical engineering
- Hydrology and hydraulic engineering
- Land planning and development
- Structural engineering
- Transportation systems engineering
- Water resources engineering
- Water and wastewater treatment engineering

Requirements for Majors

Civil Engineering Major

B.S. degree program only

Total required hours— 138

- I. General education requirements— 41 hours
Refer to the general education section for university requirements.
Specific courses required within civil engineering
 - Bible 3123
 - Economics 2503
 - English 3143
 - Biology 1013
 - Mathematics and physical science satisfied by major/minor
- II. Courses for major— 97 hours
 - Chemistry 1113, 1123, 1211, 1221
 - Civil and Environmental Engineering 1123, 2113, 2123, 2133, 2211, 2513, 3113, 3211, 3213, 3313, 3413, 3443, 3513, 3613, 3621, 3713, 3721
 - Engineering 0110, 1113, 4942, 4953, 4991
 - Mathematics 1314, 2314, 2324, 3123, 3133
 - Physics 2414
 - Five Civil Engineering Specialty Electives (15 semester hours) chosen from Civil and Environmental Engineering 4213, 4223, 4313, 4413, 4513, 4613, 4713

Note: The minor in applied mathematics is automatically satisfied.

*Note: Mathematics 1314, Calculus I, **must** be taken during the fall semester of the freshman in order to enroll in Physics 2414 during the spring semester. Otherwise, completion of the program may require more than eight semesters. Students who are not eligible to begin in the calculus sequence should consider enrolling in Mathematics 1123 in the summer session.*



Course Descriptions

Civil And Environmental Engineering (CEE)

1123 Fundamentals of Engineering Design (3) SP

Fundamentals of engineering design as it pertains to civil engineering. Designs are carried out by student teams, starting with performance specifications formulated by the instructor, and culminating in a set of engineering drawings and specifications prepared by the student teams. Prerequisite: Engineering 1113. Lecture, 2 hours; laboratory 3 hours.

2113 Statics (3) F

Studies in the principles of statics, force systems and equilibrium analysis of structures, friction, centroids and center of gravity, and moments of inertia. Prerequisite: Physics 2414. Corequisite: Mathematics 2314. Lecture, 3 hours.



2123 Dynamics (3) SP

Studies in the principles of dynamics, rectilinear translation, curvilinear translation, rotation, plane motion, work and energy, and impulse and momentum. Prerequisites: Civil and Environmental Engineering 2113, Mathematics 2314, Engineering 2513. Lecture, 3 hours.

2133 Surveying and Geomatics (3) F

Surveying theory and practice including horizontal, vertical and angular field measurements, analysis of measurements, errors and error analysis, and graphical or digital presentation of survey data. Introduction to GIS and GPS. Prerequisite: Engineering 1113. Lecture, 1 hour; Laboratory, 6 hours.

2211 Experimental Methods Laboratory (1) SP

Principles of experimental methods and procedures, measurement techniques for basic mechanical properties, introduction to instrumentation characteristics and selection, and proper documentation of experimental results. Prerequisite: Engineering 2513. Corequisite: Civil and Environmental Engineering 3113. Laboratory, 3 hours.

2513 Engineering Computer Applications (3) SP

Introduction to the use of engineering computational tools. Students will learn to program using Excel, Mathcad, MATLAB, Engineering Equation Solver (EES) or similar computing environments. Prerequisite: CEE 1123. Lecture, 3 hours.

3113 Strength of Materials (3) SP

Studies in the principles of stress, strain, torque, bending moment, Hooke's law, torsion, shear and bending moment diagrams, beam theory, columns and shafts. Prerequisites: Civil and Environmental Engineering 2113, Mathematics 2314, Engineering 2513. Lecture, 3 hours.

3211 Solid Mechanics and Materials Laboratory (1) F

A series of experiments which demonstrate the theory of mechanics of materials and the most important characteristics of engineering materials. Prerequisites: Civil and Environmental Engineering 3113. Laboratory, 3 hours.

3213 Structural Analysis (3) F

Analysis of statically determinate and indeterminate trusses, beams and frames. Stability and determinacy: shear, moment and axial force diagrams for beams and frames. Deflection calculations using double integration, moment-area theorems and virtual work. Force and displacement methods for analysis of indeterminate structures. Approximate analysis of monolithic building frames. Computer applications for structural analysis. Prerequisites: Civil and Environmental Engineering 3113. Lecture, 3 hours.

3313 Environmental Engineering (3) F

Fundamentals of environmental engineering. Applications in water quality, water and wastewater treatment, solid waste management, air pollution and hazardous waste management. Environmental regulations. Prerequisites: Chemistry 1123 and 1221. Corequisite: Civil and Environmental Engineering 3613. Lecture, 3 hours.

- 3413 Construction (3) F**
Fundamental concepts of construction, equipment selection, productivity, concrete and steel construction, construction contracts, economics, estimating and scheduling. Prerequisites: Civil and Environmental Engineering 2133. Lecture, 3 hours.
- 3443 Civil Engineering Materials (3) SP**
The physical and mechanical properties of materials used in construction including aggregates, cements, concretes, masonry, ferrous and non-ferrous metals, and wood; the behavior of materials under load; and material testing standards. Prerequisites: Chemistry 1113 and 1211, Civil and Environmental Engineering 3113. Corequisite: Civil and Environmental Engineering 3211. Lecture, 2 hours; Laboratory, 3 hours.
- 3513 Transportation Engineering I (3) F**
Planning, operation and design of transportation systems with an emphasis on highway transportation. Contemporary issues in transportation policy, transportation planning models, and project evaluation and selection techniques. Fundamental principles of traffic flow theory, shockwaves, delay at intersections, queuing systems traffic control and use of the Highway Capacity Manual. Design of horizontal and vertical alignment. Introduction to transportation engineering with emphasis on highway systems, highway design and traffic flow. Applications of engineering economic analysis. Prerequisites: Civil and Environmental Engineering 2133. Lecture, 3 hours.
- 3613 Fluid Mechanics (3) F**
Fundamentals of fluid flow; fluid statics, systems and control volumes; continuity, momentum and energy equations; dynamic similitude; flow in pipes and open channels; flow measurements. Prerequisites: Mathematics 2324, Civil and Environmental Engineering 2123. Lecture, 3 hours.
- 3621 Hydraulics Laboratory (1) SP**
A series of experiments which demonstrate the theory of fluid mechanics in civil and environmental engineering applications. Particular emphasis is placed on pumps, pipe flow and open channel flow. Prerequisites: Civil and Environmental Engineering 3613. Laboratory, 3 hours.
- 3713 Geotechnical Engineering (3) SP**
Physical properties of soils, soil mechanics including phase relationship, soil classification, permeability, effective stress, time-settlement analysis, compaction, shear strength and bearing capacity. Prerequisites: Civil and Environmental Engineering 3113 and 3613. Lecture, 3 hours.
- 3721 Civil Engineering Laboratory (1) SP**
A series of experiments which demonstrate fundamental principles of construction materials used in civil engineering. Corequisites: Civil and Environmental Engineering 3443, 3713. Laboratory, 3 hours.
- 4213 Reinforced Concrete Structural Design (3) SP**
Concrete and reinforcing steel properties; analysis and design of reinforced concrete beams, slabs, columns and footings. Prerequisites: Civil and Environmental Engineering 3213 and 3443. Lecture, 3 hours.
- 4223 Structural Steel Design (3) F**
Analysis and design of structural steel members and their connections according to the ASIC Manual of Steel Construction. Tension members, compression members, beams and beam columns. Bolted connections in tension, shear and bearing. Analysis of simple welded connections. Prerequisite: Civil and Environmental Engineering 3213. Lecture, 3 hours.
- 4313 Water and Wastewater (3) SP**
Potable water treatment and wastewater treatment and disposal. Treatment systems; operation/process physics, chemistry and biology; operation and maintenance issues; and regulatory requirements. Prerequisites: Civil and Environmental Engineering 3313. Lecture, 3 hours.
- 4413 Construction Project Planning and Management (3)**
Planning and management of construction/engineering projects and organizations, project management techniques, skills and applications. Contracts, laws, financing and safety. Prerequisites: Civil and Environmental Engineering 3413. Lecture, 3 hours.
- 4513 Transportation Engineering II (3)**
Integrating transportation engineering principles into the design of multimodal transportation systems, including an overview of transportation design tools often utilized in the industry. Analysis of geometric design and operations management strategies to improve safety and performance; including design for non-motorized and public transport, intelligent transportation systems, signal systems and simulation. Prerequisites: Civil and Environmental Engineering 3513. Lecture, 3 hours.
- 4613 Urban Hydrology and Hydraulic Systems (3) F**
Hydrologic cycle, precipitation, infiltration, runoff with emphasis on small urban watersheds. Analysis and design of typical urban hydraulic systems/components, including curbs, inlet gutters, storm sewers, detention/retention ponds, sanitary sewer systems, pump stations, potable water transmission and distribution systems. Prerequisites: Civil and Environmental Engineering 3613. Lecture, 3 hours.
- 4713 Foundation Engineering (3) F**
Application of soil mechanics and soil behavior in geotechnical engineering analysis and design. Slope stability, subsurface exploration, lateral earth pressure, retaining structure design, foundation bearing capacity and settlement. Principles of foundation design. Prerequisite: Civil and Environmental Engineering 3713. Lecture, 3 hours.
- 491V Special Topics in Civil Engineering (1-5)**
Selected topics from civil and environmental engineering will be offered as opportunities develop. Course format may be lecture, lab or project depending on the specific topic selected. Prerequisites: Consent of instructor.

Department of Electrical and Computer Engineering

John W. Pettit, Associate Professor and Academic Chair

Greg G. Nordstrom, Professor

John M. Hutson Assistant Professor

The Department of Electrical and Computer Engineering is responsible for the curriculum leading to the ABET accredited Bachelor of Science degree with a major in electrical and computer engineering.

The ECE major offers two tracks, or areas of concentration, specifically computer engineering and electrical engineering. Both are built upon a common set of core courses. Beyond this common core, each has its own concentration courses and technical electives, as detailed in the major requirements below.

The electrical and computer engineering curriculum is designed to equip graduates with the knowledge and skills necessary for entry-level engineering jobs in industry or for the pursuit of a graduate degree in electrical or computer engineering. Specifically, it provides knowledge of current electrical and computer technology, the design techniques and tools pertinent to it, and a solid grounding in the mathematics and science that underlie both current and future technology in this field. Knowledge of current technology is required to make our graduates valuable from their first day of employment. Knowledge of the basics is required for lifelong learning, which is necessary for career-long professional growth in a world of rapidly advancing technological complexity. We continually strive to integrate and balance these two areas.

Distinctives of the Electrical and Computer Engineering Department

Lipscomb's electrical and computer engineering graduates have received numerous research and teaching assistantships at such prestigious schools as Harvard, Columbia and Vanderbilt. Likewise, graduates have taken positions in local companies, such as Bonitron; regional companies, such as Torch Technologies; and national companies, including Intel and Lexmark. Our students consistently score well above the national average on the professional engineering exam and have achieved a high placement rate upon graduation. The ECE faculty has both the academic and industrial experience to give our students the necessary preparation to be successful. On the basis of this record and the rapid growth of the electrical and computer industries, graduates have every reason for optimism regarding their professional prospects.

Program Educational Objectives

The educational objectives of the computer and electrical engineering programs at Lipscomb University are to produce graduates who will be successful in:

1. The practice of engineering as:
 - maturing professionals employed in industrial, governmental, educational or consulting positions with ever-increasing responsibilities and influence;
 - individuals whose interaction with their employers, coworkers and neighbors is characterized as considerate, moral and ethical;
2. The acquisition of new knowledge and skills by:
 - pursuing advanced degrees in engineering and related fields;
 - actively participating in ongoing professional development;
 - refining and adapting their fundamental skills to keep pace with a rapidly changing environment;
3. The application of their talents to serving others by:
 - active engagement in programs and initiatives which leverage their engineering competence and other skills in ways beneficial to their community, their church, their profession and society as a whole.



Career Opportunities

Electrical engineers design and build a wide range of electrical and electronic systems including hybrid automobile motors and batteries, communication systems (including the new 4G cellular phone networks), electrical power transmissions systems (such as the emerging “smart grid”) and even alternative energy sources such as solar panels and wind turbines.

Computer engineers create next-generation computer systems by developing new computer architectures, high-speed processor chips and memory systems, digital displays and digital networks. They design both large and small systems, from the super computers used in space and high-energy physics research to the tiny embedded microprocessors used in a wide variety of applications such as automobiles, airplanes, appliances, traffic control systems, heating and cooling systems and many other modern products.

Both electrical engineers and computer engineers are involved in the autonomous control of mechanical systems, commonly called robotics. In the commercial world they develop consumer electronics such as MP3 players, Wii consoles, printers and similar products. In our nation’s defense industry, electrical and computer engineers develop new systems to protect our freedom, while in the academic world they do research in new and innovative ways to apply technology. Also, electrical and computer engineers work to develop and deliver future green technologies to satisfy the world’s increasing demand for energy while protecting and sustaining our planet’s finite resources.

Requirements for Majors

Electrical and Computer Engineering Major

B.S. degree program only

Total hours required — 132 ECE Computer Engineering track
— 133 ECE Electrical Engineering track

- I. General education requirements— 38 hours
Refer to the general education section for university requirements.
Specific courses required within electrical and computer engineering:
 - Bible 3123
 - Economics 2503
 - English 3143
 - Mathematics and physical science satisfied by major/minor
- II. Core courses— 76 hours
 - Chemistry 1113 and 1211
 - Computer Science 1041, 1213, 1233, 2323
 - Electrical and Computer Engineering 2214, 2223, 3013, 3234, 3813, 4254, 4513
 - Engineering 1113, 1123, 4942, 4953, 4991
 - Mathematics 1314, 2103, 2314, 2324, 3133
 - Physics 2414, 2424
- III. Concentration and elective courses
 - Computer Engineering track:**
 - Concentration courses: 12 hours
 - Computer Science 2233, 3523
 - Electrical and Computer Engineering 4263, 4823
 - Technical electives - 6 hours selected from:
 - Computer Science 3623, 3713, 4453
 - Electrical and Computer Engineering 3243/3331(combined), 3523, 395V, 4513, 4523
 - Engineering 3513
 - Software Engineering 3223
 - Electrical Engineering track:**
 - Concentration courses: 13 hours
 - Electrical and Computer Engineering 3243, 3331, 3403
 - Engineering 3513
 - Mechanical Engineering 2013
 - Technical electives - 6 hours selected from:
 - Computer Science 2233, 3523
 - Electrical and Computer Engineering 3523, 3713, 395V, 4263, 4523, 4823
 - Physics 2434, 3503

Note: The minor requirement in pure mathematics is automatically satisfied in the electrical and computer engineering majors.

Note: Mathematics 1314, Calculus I, MUST be taken during the fall semester of the freshman year in order to enroll in Physics 2414 in the spring semester. Otherwise, completion of the program may require more than eight semesters. Students who are not eligible to begin the calculus sequence should consider enrolling in Mathematics 1123 in the summer session.

Course Descriptions

Electrical and Computer Engineering (EECE)

2013 Survey of Electrical Engineering (3) SP

A study of electric circuit DC and AC analysis, transient circuit analysis, frequency response and filters, complex power, and electromechanics. Prerequisite: Physics 2424 with a grade of "C" or higher. Lecture, 3 hours.

2214 Electric Circuits and Signals I (4) F

A study of resistor network analysis including series-parallel, wye-delta, source transformations, node voltage and mesh current analysis. Also includes: Thevenin & Norton equivalent circuits, capacitance, inductance, mutual inductance and transformers as well as AC phasor analysis of RLC circuits, single phase power systems and application of operational amplifiers. Hands-on experience with circuit performance measurement and numerical methods. Corequisite: Physics 2424. Lecture, 3 hours; Laboratory/recitation, 3 hours.

2223 Electric Circuits and Signals II (3) SP

A study of transient response of RL/RC and RLC networks, Laplace and Fourier transform methods, and introduction to Z transforms. Includes filter design, including Butterworth filters with frequency and impedance scaling. Also, two-port parameters. Prerequisite: Electrical and Computer Engineering 2214 with a grade of "C" or higher. Lecture, 3 hours.

3013 Random Analysis for Electrical Engineers (3) SP

Fundamentals of probability, statistical sampling and hypothesis testing. Includes probability distribution functions, random variables and processes response of linear systems to random processes, and optimum systems and filters. Prerequisite: Electrical and Computer Engineering 2223. Lecture, 3 hours.

3234 Semiconductor Electronics I (4) F

A study of mathematical modeling of the p-n junction; diode circuit analysis; rectifier design; mathematical modeling of the bipolar junction transistor (BJT) and the metal-oxide-semiconductor field-effect transistor (MOSFET); quiescent and small signal analysis of BJT and MOSFET amplifiers; basic NMOS and CMOS digital circuit blocks, including flip-flops and SRAM/DRAM memory; and A/D conversion techniques. Prerequisite: Electrical and Computer Engineering 2214 or Electrical and Computer Engineering 2013. Lecture, 3 hours; Laboratory, 3 hours.

3243 Semiconductor Electronics II (3) SP

A study of power amplifiers, operational amplifier applications, transistor amplifier frequency response, operational amplifier design, feedback circuit analysis, oscillators and special analog circuits. Prerequisite: Electrical and Computer Engineering 3234 with a grade of "C" or higher. Lecture, 3 hours.

3331 Semiconductor Electronics Laboratory (1) SP

Projects requiring the design and fabrication of semiconductor electronic circuits to meet a specification. Also, hand analysis, computer simulation and bench level performance testing are progressively employed to evaluate the circuit of interest. Documentation at each phase is emphasized. Corequisite: Electrical and Computer Engineering 3243. Laboratory, 3 hours.

3403 Electromagnetic Fields (3) F

Offered odd-numbered years

A study of electromagnetic fields beginning with Maxwell's equations. Interactions with conductors and dielectric media, wave-guides and antennae. Prerequisite: Physics 2424. Lecture, 3 hours. Same as Physics 3403.

3523 Communication Systems (3)

Offered on demand

The theory and design of analog and digital communications systems. Signal classification, correlation, representation, analysis and transmission methods are investigated, as are amplitude and frequency modulation, signal encoding/decoding, encryption and error detection/correction. Prerequisites: Electrical and Computer Engineering 2223 and Electrical and Computer Engineering 3813. Lecture, 2 hours; Laboratory, 3 hours.

3713 Introduction to Power System Analysis (3) F

Offered on demand

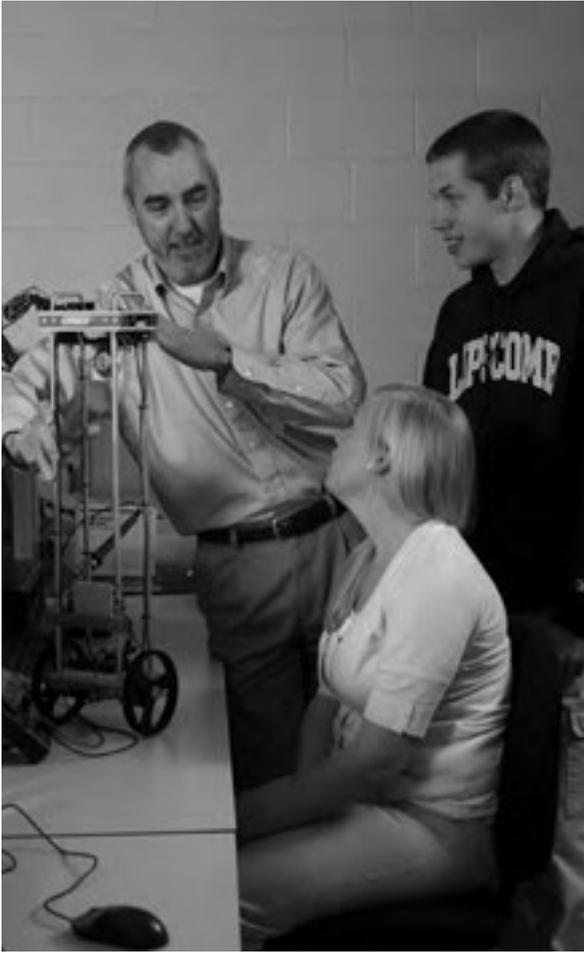
A study of basic power concepts, per unit quantities, transformers, synchronous machines and power control. Also includes transmission line impedances, current and voltage relationships, one line system diagrams, symmetrical components, symmetrical and unsymmetrical fault current calculations, circuit breakers and system protection. Prerequisites: Electrical and Computer Engineering 2223. Lecture, 3 hours.

3813 Digital Computer Design I (3) SP

An introduction to the digital hardware design process and CAD tools, particularly VHDL. Review of Boolean algebra, functional optimizations and logic gate implementations. Design of adder/subtractor units, array multipliers, multiplexers, encoders/decoders. State-machine design of sequential circuits, state assignment/state reduction, excitation and output generation. Prerequisite: Engineering 1123. Lecture, 3 hours.

395V Topics in Electrical and Computer Engineering (1, 2, 3, 4, or 5) Offered on demand

Topics from electrical/computer engineering in either lecture or laboratory oriented format, depending on the specific topic selected. Course may be repeated for credit. Prerequisite: Consent of instructor. Offered on demand.



4513 Digital Signal Processing (3) F

Introduction to digital signal processing. Topics will include Sampling Theorem, z-Transform, discrete-time Fourier transform, power spectrum, discrete Fourier transform, the FFT algorithm and digital filter design. Prerequisites: Electrical and Computer Engineering 2223 and Mathematics 2103 with a grade of “C” or higher. Lecture, 2 hours; Laboratory, 3 hours.

4523 Mechatronic Systems (3) SP

An interdisciplinary course that provides both electrical and computer engineering students as well as mechanical engineering students with the necessary knowledge to apply the use of sensors, actuators, electrical equipment and microprocessors to the design and building of intelligent mechatronic systems. Prerequisites: Engineering 3513 for electrical engineering track or Electrical and Computer Engineering 4263 for computer engineering track. Lecture, 2 hours; Laboratory, 3 hours.

4823 Digital Computer Design II (3) SP

Provides an in-depth digital circuit design experience. Datapath and control path design concepts and practice, modeling and simulation techniques, and circuit synthesis are covered. Design analysis, verification, testing and cost issues will be taught as well. Single-cycle, multi-cycle and pipelined microprocessor architectures are modeled and implemented using hardware description languages and contemporary CAD tools. The course culminates in a cache-based microprocessor design project using VHDL. Prerequisites: Engineering 1123 and Electrical and Computer Engineering 3813 with a grade of “C” or higher. Lecture, 2 hours; Laboratory/recitation, 3 hours.

4254 Microprocessors (4) SP

The theory and application of microprocessors, including architecture, hardware considerations and programming methods in both assembly- and higher-level languages. Theory and practice of analog-to-digital conversion, synchronous and asynchronous communications, timing, and real-time interrupts. In the laboratory, students design, build and test assignments involving state-of-the-art microprocessors, sensors and output devices. Prerequisites: Computer Science 2323, Engineering 1123, and Electrical and Computer Engineering 3234. Lecture, 3 hours; Laboratory 3 hours.

4263 Embedded Systems (3) F

Special fixed purpose computing system design is considered using a combination of microprocessors (software) and custom digital logic (hardware). Design trade-offs focus on the selection and use of software versus hardware processors for optimized performance. Includes hardware interfacing, bus protocols, peripheral systems, digital control systems, real-time constraints and networking. Design considerations include cost, performance, power, flexibility and maintainability. Prerequisite: Electrical and Computer Engineering 4254 with a grade of “C” or higher, and Electrical and Computer Engineering 4823. Lecture, 2 hours; Laboratory/recitation, 3 hours.

Department of Mechanical Engineering

Kerry E. Patterson, Associate Professor and Academic Chair

A. Fort Gwinn, Professor and Associate Dean

Richard Gregory, Associate Professor

The Department of Mechanical Engineering is responsible for the Bachelor of Science degree program in mechanical engineering. Mechanical engineering provides a program of study covering a wide range of topics in thermal and mechanical systems that prepares students for a wide range of engineering careers in industry. Lipscomb's Mechanical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

During the first two years, students are given a broad education in engineering topics along with the basic mathematics and sciences that are foundational to the study of engineering. Starting in the junior year, the curriculum includes more intense engineering analysis courses with an emphasis on the relationship between analytical techniques and the engineering design process. Students in their junior and senior years pursue more specific interests by selecting between two traditional areas of design in mechanical engineering: mechanical systems and/or thermal-fluid systems along with in-depth elective courses. Then, during the senior year the student is allowed to fully explore the "art" of engineering design through a senior design experience that involves students in interdisciplinary teams that are given the task of designing and producing a product that will meet a set of pre-defined requirements.

Distinctives of the Mechanical Engineering Department

Whether developing more fuel-efficient automobiles, designing robotic medical systems or helping to put an astronaut on Mars, mechanical engineers will play a critical role in maintaining our place in the world economy. The faculty in the Department of Mechanical Engineering has the academic and practical experience to provide our students with the necessary knowledge and experience to be successful.

While at Lipscomb University, mechanical engineering students have the opportunity to participate in numerous extracurricular activities through annual engineering mission trips, the student chapter of the American Society of Mechanical Engineers and the Society of Automotive Engineers BAJA SAE student design competition. Students are also encouraged to seek engineering internship opportunities in industry during the summers. Faculty members assist students in finding and securing engineering internships whenever possible.

Program Educational Objectives for Mechanical Engineering

The educational objectives of the mechanical engineering program at Lipscomb University are to produce graduates who will be successful in:

1. The practice of engineering as:
 - maturing professionals employed in industrial, governmental, educational or consulting positions with ever-increasing responsibilities and influence;
 - individuals whose interaction with their employers, coworkers and neighbors is characterized as considerate, moral and ethical;
2. The acquisition of new knowledge and skills by:
 - pursuing advanced degrees in engineering or related fields;
 - actively participating in ongoing professional development;
 - refining and adapting their fundamental skills to keep pace with a rapidly changing environment;
3. The application of their talents to serving others by:
 - active engagement in programs and initiatives which leverage their engineering competence and other skills in ways beneficial to their community, their church, their profession and society as a whole.



Career Opportunities

Employment opportunities for those with a mechanical engineering degree are numerous and include careers in areas such as:

- Aerospace
- Automotive
- Robotics
- Defense
- Energy systems development and design
- Renewable energy systems
- Machine design
- Government and private research
- Consulting
- Manufacturing

A mechanical engineering degree also provides a solid foundation on which to continue learning. In addition to pursuing master's or doctoral degrees in their field, mechanical engineering graduates are exceptionally good candidates for advanced degrees in the areas of business, law and medicine.

Requirements for Majors

Mechanical Engineering Major

B.S. degree program only

Total required hours— 136

I. General education requirement— 41 hours

Refer to the general education section for university requirements.

Specific courses required within mechanical engineering:

Bible 3123, 4213

Economics 2503

English 3143

History 1123 is recommended for history requirement

Mathematics and physical science satisfied in major/minor

II. Courses for major— 96 hours

Chemistry 1113, 1211

Electrical and Computer Engineering 2013

Engineering 1113, 1123, 2513, 3303, 3513, 4942, 4953, 4991

Mechanical Engineering 2113, 2123, 2211, 3113, 3211, 3313, 3413, 3443, 3613, 3703, 3803, 3812, 3831, 4303, and either 4423 or 4513

Mathematics 1314, 2314, 2324, 3133

Physics 2414, 2424

Approved technical electives 6 hours

Note: The minor requirement in applied mathematics is automatically satisfied.

Note: Mathematics 1314, Calculus I, MUST be taken during the fall semester of the freshman year in order to enroll in Physics 2414 in the spring semester. Otherwise, completion of the program may require more than eight semesters. Students who are not eligible to begin in the calculus sequence should consider enrolling in Mathematics 1123 in the summer session.

Course Descriptions

Mechanical Engineering (ME)

1123 Fundamentals of Mechanical Engineering (3) SP

Fundamentals of engineering design as it applies to mechanical engineering. Emphasis is on design and the supporting analysis required to develop and assess candidate designs. Designs are related to the major sub-disciplines in mechanical engineering: the design process, solid mechanics and materials, thermal-fluid and energy systems, motion and power transmission. Prerequisite: Engineering 1113. Lecture, 2 hours; Laboratory, 3 hours.

2013 Survey of Mechanical Engineering (3) F

An overview in the basic principles of engineering mechanics from statics, dynamics and strength of materials. This includes both static and dynamic force systems and equilibrium, area and mass properties, and general concepts in stress and strain. Prerequisite: Physics 2414. Lecture, 3 hours.

- 2113 Statics (3) F**
Studies in the principles of statics, force systems and equilibrium analysis of structures, friction, centroids and center of gravity, and moments of inertia. Prerequisite: Physics 2414 with a minimum grade of "C." Corequisite: Mathematics 2314. Lecture, 3 hours.
- 2123 Dynamics (3) SP**
Studies in the principles of dynamics, rectilinear translation, curvilinear translation, rotation, plane motion, work and energy, and impulse and momentum. Prerequisite: Mechanical Engineering 2113, Mathematics 2314, Engineering 2513, all with a minimum grade of "C." Lecture, 3 hours.
- 2211 Experimental Methods in Mechanical Engineering (1) SP**
Principles of experimental methods and procedures as well as measurement techniques for basic mechanical properties. An introduction to instrumentation characteristics and selection, along with proper documentation of experimental results. Prerequisites: Engineering 2513 with a minimum grade of "C." Corequisite: EECE 2013. Lecture/laboratory, 3 hours.
- 2513 Mechanical Engineering Computer Applications (3) F**
Introduction to the use of computational tools in mechanical engineering. Students will use MATLAB, Engineering Equation Solver (EES), and other tools as appropriate to his or her area of study. Prerequisites: Mechanical Engineering 1123 with a minimum grade of "C." Lecture, 3 hours.
- 3113 Strength of Materials (3) SP**
Studies in the principles of stress, strain, torque, bending moment, Hooke's law, torsion, shear and moment diagrams, beam theory, columns, and shafts. Prerequisite: Mechanical Engineering 2113, Mathematics 2314, Engineering 2513, all with a minimum grade of "C." Lecture, 3 hours.
- 3211 Solid Mechanics and Materials Laboratory (1) F**
A series of experiments which demonstrate the theory of mechanics of materials and the most important characteristics of engineering materials. Prerequisite: Mechanical Engineering 2211, 3113 both with a minimum grade of "C." Laboratory, 3 hours.
- 3313 Mechanical Vibrations (3) SP**
Theory of vibrations; free and forced, damped and undamped vibrations, one and two degree of freedom systems, and computer-aided simulations. Introduction to continuous systems. Prerequisites: Mechanical Engineering 2123, Mathematics 3133 both with a minimum grade of "C." Lecture, 3 hours.
- 3413 Dynamics of Machinery (3) SP**
A study of kinematic analysis of plane mechanism linkages, analysis and synthesis of cam-follower mechanisms, and gear trains. An introduction to the synthesis of planar mechanisms-linkages, static and dynamic force and torque analysis of plane mechanisms with balancing using the computer. Prerequisites: Mechanical Engineering 2123 with a minimum grade of "C." Lecture, 3 hours.
- 3443 Engineering Materials (3) F**
An introduction to the structure and behavior of modern engineering materials. Explores the relationship between the atomic, microscopic and macroscopic structure of materials and their mechanical, thermal and failure properties. Prerequisites: Mechanical Engineering 3113, Chemistry 1113/1211, all with a minimum grade of "C." Corequisite: Mechanical Engineering 3211. Lecture, 3 hours.
- 3613 Fluid Mechanics (3) F**
A study of fundamentals of fluid flow; fluid statics; systems and control volumes; continuity, momentum, and energy equations; dynamic similitude; flow in pipes and channels; and flow measurements. Prerequisites: Mathematics 2324, Mechanical Engineering 2123, both with a minimum grade of "C." Corequisite: Mechanical Engineering 3703. Lecture, 3 hours.
- 3703 Thermodynamics (3) F**
Course topics include: concepts, models and laws; energy and the first law; properties and state; energy analysis of thermodynamics systems; entropy and the second law; conventional power and refrigeration cycles. Prerequisites: Chemistry 1113/1211, Mathematics 2324, Physics 2414, all with a minimum grade of "C." Lecture, 3 hours. Same as Physics 3703.
- 3803 Heat Transfer (3) SP**
A study of single and multidimensional steady-state and transient heat conduction, the role of convection for internal and external forced flows and in buoyancy-driven flow, and thermal radiation processes and properties. Prerequisites: Mechanical Engineering 3613, 3703, Engineering 3303, all with a minimum grade of "C."
- 3812 Advance Computer-Aided Design (2) SP**
Advanced topics in computer aided design and analysis, including assemblies, drawings, and kinematic analysis using SolidWorks. Corequisite: Mechanical Engineering 3413. Lecture/laboratory, 3 hours.
- 3831 Fluid Mechanics and Thermal Science Laboratory (1) SP**
A series of experiments which demonstrate the principles of fluid mechanics, thermodynamics and heat transfer. Particular emphasis is placed on energy transfer in fluids. Prerequisites: Mechanical Engineering 2211, 3613, both with a minimum grade of "C." Corequisite: Mechanical Engineering 3803. Laboratory, 3 hours.
- 395V Topics in Mechanical Engineering (1, 2, 3, 4 or 5) Offered on demand**
Topics from engineering mechanics in either lecture- or laboratory-oriented format, depending on the specific topic selected. Course may be repeated for credit. Prerequisite: Consent of instructor.
- 4123 Advanced Mechanics of Materials (3) F Offered on demand**
A study of advanced topics, fracture mechanics, fatigue and life prediction, elastic support, non-circular shafts, curved beams, thick-walled cylinders, an introduction to plates, and thin shells of revolution. Prerequisites: Mechanical Engineering 3113, Mathematics 3133, both with a minimum grade of "C." Lecture, 3 hours.

- 4223 Design of Pressure Systems (3)
Offered on demand**
Course topics include design of pressure vessels and piping systems for stress and deflection. Emphasis will be on the use of ASME Boiler and Pressure Vessel Codes as well as the ASTM piping codes. Prerequisites: Mechanical Engineering 3113 with a minimum grade of "C." Lecture, 3 hours.
- 4303 Computational Methods in Mechanics (3) F**
A study of matrix formulation and modern numerical methods used in the analysis of engineering programs and the application of the finite element method in solid mechanics, heat transfer and fluid mechanics. Topics include the formulation of rod, beam, plane stress/strain, 2-D heat transfer, and other basic elements along with modeling techniques and error analysis. Prerequisites: Mechanical Engineering 3313, 3803, 3812 all with a minimum grade of "C." Lecture, 3 hours.
- 4423 Design of Machine Elements (3) F**
This course equips the student with a working knowledge of components commonly found in mechanical systems. The student will learn the skills necessary to properly design and select components based on function, loading, and wear characteristics. Prerequisite: Mechanical Engineering 3113, 3413 both with a minimum grade of "C." Lecture, 3 hours.
- 4513 Design of Thermal-Fluid Systems (3) F**
This course equips the student with a working knowledge of components commonly found in thermal-fluid systems. Examples are drawn from power generation, environmental control and industrial processes. Students work on group projects for integration of these components in the design of thermal systems. Prerequisites: Mechanical Engineering 3803 with a minimum grade of "C." Lecture, 3 hours.
- 4523 Mechatronic Systems (3) SP**
An interdisciplinary course that provides both mechanical engineering students as well as electrical and computer engineering students with the necessary knowledge to apply the use of sensors, actuators, electrical equipment and microprocessors to the design and building of intelligent mechatronic systems. Prerequisites: Engineering 3513 with a minimum grade of "C." Lecture, 2 hours; Laboratory, 3 hours.
- 4613 Advanced Fluid Mechanics (3) SP
Offered even-numbered years**
This course provides students with an understanding of advanced fluid flow concepts beyond the introductory level and equips them with the mathematical tools and techniques to solve engineering problems involving these more advanced concepts. Topics covered include: potential flow, computational fluid dynamics, aerodynamic drag, compressible flow, turbomachinery, and propulsion. Prerequisites: Mechanical Engineering 3613, Engineering 2513 both with a minimum grade of "C." Lecture, 3 hours.
- 4713 Automotive Design (3)
Offered on demand**
A study of the fundamentals of designing vehicles based on current and evolving technology. A broad set of topics will be addressed giving the student a basic understanding of the principles involved in vehicle design. Prerequisite: Mechanical Engineering 3703, 3413 with a minimum grade of "C." Lecture, 3 hours.
- 4723 Heating Ventilating and Air Conditioning (HVAC) (3) SP. Offered on demand**
A study of the fundamental theoretical principles and practical considerations in the design of various HVAC equipment and systems. A broad set of topics will be addressed giving the student a basic understanding of the principles involved in HVAC design. Corequisite: Mechanical Engineering 3803. Lecture, 3 hours.
- 4733 Alternative Energy Sources (3) SP
Offered odd-numbered years**
A study of the fundamental principles of alternative energy. Covers the major alternative energy sources: wind, solar, tidal and wave energy; biomass; biofuels; geothermal; fuel cells and hydrogen. Prerequisites: Electrical and Computer Engineering 2013, Mechanical Engineering 3703 both with a minimum grade of "C." Lecture, 3 hours.
- 4743 Survey of Aerospace Engineering (3)
Offered on demand**
Course topics include flight and flight vehicles both within and outside the atmosphere, airfoil and wing aerodynamics, aircraft performance, an introduction to aircraft stability and control, orbital mechanics, atmospheric re-entry, air-breathing and rocket propulsion systems, aerospace structures and materials. Prerequisites: Mechanical Engineering 2123 with a minimum grade of "C." Corequisite: Mechanical Engineering 3803. Lecture, 3 hours.



College of Pharmacy and Health Sciences

Roger L. Davis, *Dean*

The mission of the College of Pharmacy and Health Sciences is to produce competent, caring and compassionate health care professionals that exemplify a commitment to a Christian life of service. The college is focused on promoting academic excellence and educating individuals for careers in health care delivery. The college provides a variety of undergraduate, graduate and professional degrees dedicated to the delivery of patient care and well-being. The College of Pharmacy and Health Sciences teaches students to live a life of Christian service and is committed to preparing students to serve mankind.

The undergraduate portion of the College of Pharmacy and Health Sciences is comprised of the School of Nursing and the School of Health Sciences. The School of Nursing offers a Bachelor of Science in nursing (BSN) degree. This program prepares the student for a career in the health care field as a registered nurse upon successful completion of the National Council Licensure Examination (NCLEX). Class work will occur on Lipscomb's campus, and the clinical work will take place in a variety of settings. It is an exciting time for the School of Nursing as it grows and continues to fill a need for our society. The School of Health Sciences is comprised of the Department of Kinesiology and the Department of Nutrition. Both programs are designed to enrich students' lives while teaching them the care of others.

The College of Pharmacy, Graduate Studies in Health Care Informatics and Graduate Studies in Exercise and Nutrition Science comprise the graduate programs for the College of Pharmacy and Health Sciences. The College of Pharmacy is steeped in the traditions of public service, focused on health care delivery to the public and committed to the principles of Christian service. The College of Pharmacy curriculum is a four-year doctoral program requiring a minimum of 66 semester credits in pre-pharmacy courses. Graduate Studies in Health Care Informatics offers a dual Doctor of Pharmacy and Master of Science in Health Care Informatics degree, a 42-hour Master of Science in Health Care Informatics degree, and a 15-hour certificate program in health care informatics. Graduate Studies in Exercise and Nutrition Science offers a 32-36 hour program combining the disciplines of exercise science and nutrition. Students graduate with a M.S. in exercise and nutrition science.

Off-site learning experiences (i.e., clinical, practicum, internship, etc.) are required in many courses of study at Lipscomb. Successful completion of these experiential courses is required for graduation and/or licensure. Students should be aware that many experiential sites require satisfactory documentation of personal identification in the form of driver's licenses, social security cards, passports, drug screening and background checks. Students should make sure that they are aware of and can meet all documentation requirements well in advance of the time frame for admission into the respective program and placement into these sites. Failure to provide required documentation for successful entry into these experiential courses will result in failure to complete the desired program of study.

For additional information on any of these programs, please call 615.966.7160.

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Pharmacy

Roger L. Davis, *Dean*

Lipscomb University College of Pharmacy is an extraordinary college steeped in the traditions of public service, focused on health care delivery to the public, and committed to the principles of Christian service. The College of Pharmacy at Lipscomb University embraces an environment that emphasizes a commitment to academic excellence and a life of Christian faith.

Lipscomb University College of Pharmacy has been granted full accreditation status by the Accreditation Council for Pharmacy Education (ACPE). The college has demonstrated to the satisfaction of ACPE that the program complies with accreditation standards, including the appropriateness of the program's mission and goals, the adequacy of resources and organization to meet the mission and goals, outcomes which indicate that the mission and goals are being met, and the reasonable assurance of the continued compliance with standards.

Full accreditation status was granted by the ACPE through June 30, 2014. The ACPE site team conducted the scheduled continuation site visit in Feb. 2014. The ACPE Board of Directors will meet in June 2014 to consider continuation of full accreditation status.

The official ACPE statement is as follows: "Lipscomb University College of Pharmacy & Health Sciences Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503, 312.664.3575; FAX 312.664.4652." Website www.acpe-accredit.org

The College of Pharmacy will enroll 75 student pharmacists per class each year for a cohort of 300 students within four years.

The Lipscomb University College of Pharmacy curriculum is a four-year doctoral program involving three years of integrated scientific and clinical course work along with introductory practice experiences followed by a year of advanced practice experiences. Student pharmacists will graduate from the college with advanced knowledge and skills applicable for a variety of practice settings in medication therapy management; community, hospital, long-term care and other specialty practices; health care management; health outcomes research; leadership; and basic science research.

To provide the proper foundation for students entering the College of Pharmacy doctoral program there must be a minimum of two years of pre-pharmacy work completed which consists of at least 66 semester credits in pre-pharmacy courses. The pre-pharmacy curriculum is outlined here.

Lipscomb University College of Pharmacy Pre-Pharmacy Requirements

Course	Minimum Semester Credit Hours
General Chemistry with laboratories	8
Organic Chemistry with laboratories	8
Physics with laboratories	4
Biology with laboratories	8
Calculus*	3
Statistics	3
English Composition I (or Lipscomb Seminar) & II	6
Speech Communications	3
Micro or Macro Economics	3
Electives - humanities	6
Electives - social science	6
Additional electives	8
Total Hours (Minimum)	66

*Calculus for Business Majors is not accepted.



Pre-Pharmacy

The following suggested proposed courses of study are designed to prepare a student for admission to the Lipscomb University College of Pharmacy. Please discuss a course of study with your adviser to meet individual requirements.

For students prepared to start with Math 1314 Calculus I:

	F	S
Lipscomb Seminar	3	
Bible 1073, 1083	3	3
Chemistry 1113, 1123	3	3
Chemistry 1211, 1221	1	1
English 1313		3
Math 1314	4	
Biology 1134		4
General Ed. Course/Elective	<u>3</u> 17	<u>3</u> 17

For students prepared to start with Math 1113 Algebra or Math 1115 Pre-Calculus

	F	S
Lipscomb Seminar	3	
Bible 1073, 1083	3	3
Chemistry 1113, 1123	3	3
Chemistry 1211, 1221	1	1
English 1313		3
Biology 1134		4

Above courses AND:

Math 1113, 1123	3	3
Communication	<u>3</u> 16	<u>—</u> 17

OR

Math 1115	5	
Communication 1003	<u>—</u> 15	<u>3</u> 17

Please visit our website at pharmacy.lipscomb.edu for the most up to date information regarding the College of Pharmacy. Students may also contact the College of Pharmacy by email at pharmacy@lipscomb.edu.



School of Nursing

Nursing

Beth Youngblood, Professor and Executive Associate Dean

Holly Bechard, Instructor

Rachelle Driver, Assistant Professor

Mary Hesselrode, Instructor

Marty Kennedy, Assistant Professor

Roletha Pillow, Assistant Professor

Robert Spencer, Assistant Professor

Jill Stafford, Assistant Professor

Lindsey Waddell, Assistant Professor

Mary Lauren Whitehead, Assistant Professor

Lipscomb University offers a Bachelor of Science in nursing (B.S.N.) degree. The nursing program at Lipscomb University is comprised of four semesters of prerequisite courses that are foundational to the upper-division nursing courses taught the following four semesters. After the student completes the four semesters of prerequisite courses, he/she must then formally apply to the nursing program and complete four semesters of classroom, lab and clinical education specific to nursing. Upon successful completion of the prerequisite and upper-division course work, the student will be awarded a B.S.N. degree from Lipscomb University. Students who complete this program of study will have experienced multiple clinical placements prior to graduation. This degree provides students with training in nursing education strongly complemented by extensive study in the humanities and social sciences. Thus, students are well-prepared to function as a nurse and also have the necessary foundation to pursue master's and doctoral studies in nursing.

The Bachelor of Science in nursing (B.S.N.) degree offered at Lipscomb University has been fully accredited by the National League for Nursing Accrediting Commission.

B.S.N. Program Outcomes

Performance on Licensure Exam:

Graduates will pass the National Council Licensure Exam at or above the national mean as first-time takers.

Program Completion:

85 percent of students admitted to the School of Nursing at the beginning of the junior year will complete the program within 3 years of admission.

Program Satisfaction:

85 percent of graduates completing the exit interview upon graduation and responding to the alumni satisfaction survey at 6 to 12 months post graduation will agree or strongly agree that they were satisfied overall with the nursing program.

Employer Satisfaction:

85 percent of employers surveyed by quantitative and qualitative measures will agree or strongly agree that they are satisfied overall with the performance of Lipscomb School of Nursing graduates. Tools used may include employer satisfaction surveys, focus groups, and the Advisory Council.

Job Placement Rates:

90 percent of graduates will report having a nursing position within 12 months of graduation.

Student Learning Outcomes:

Upon completion of the nursing program, the baccalaureate generalist nurse graduating from Lipscomb University School of Nursing will be able to:

1. Synthesize knowledge from nursing, the humanities, and the biophysical and social sciences into the practice of professional nursing.
2. Provide patient-centered health care to culturally diverse populations in a variety of environments, both independently and in collaboration with other health care team members.
3. Demonstrate skills in critical thinking, decision-making, information management and the nursing process with individuals, families and groups experiencing complex health problems.
4. Educate and counsel individuals, families, communities and other groups using teaching/learning principles that promote, maintain and restore health.
5. Evaluate and apply evidence-based findings to professional nursing practice.
6. Utilize leadership skills in addressing professional nursing and health care issues.
7. Demonstrate accountability for decisions about nursing practice that provide safe and high quality care.
8. Demonstrate awareness of the historical and current aspects of economic, political, legal and ethical issues related to health care in society.
9. Communicate and collaborate with members of the health care team and consumers to provide and improve the delivery of health care.

Role Specific Graduate Competencies:

Upon completion of the nursing program at Lipscomb University, the graduate will be expected to function as a:

- Provider of Patient-Centered Care
- Leader/Manager
- Member of the Profession
- Patient Safety Advocate
- Educator

The competencies for these roles are threaded throughout the nursing curriculum. Progressing from awareness to knowledge to proficiency, they are guided by the educational framework, course objectives, Student Learning Outcomes, and Program Outcomes. Each competency will not necessarily be addressed in each course. These competencies will be utilized in the evaluation components for nursing courses.

Provider of Patient-Centered Care:

The graduate from Lipscomb University School of Nursing will be prepared to assume accountability for the delivery of safe, high quality patient-centered care based on evidence for diverse individuals, families, groups, communities and populations in a variety of settings. Through the use of the nursing process, the baccalaureate generalist will use their skills to prevent illness and injury and to promote, restore and maintain health across the lifespan.

Leader/Manager:

The graduate from Lipscomb University School of Nursing will be prepared to coordinate and manage care through the use of technology, resources and information systems. The graduate will use their leadership skills to delegate tasks to other health care personnel and supervise and evaluate their performance.

Member of the Profession:

The graduate of Lipscomb University School of Nursing will assume responsibility and accountability for their practice as a professional nurse and will engage in continuous professional development and lifelong learning.

Patient Safety Advocate:

The graduate of Lipscomb University School of Nursing will demonstrate knowledge of professional, governmental and accreditation standards pertaining to safe practice. They will apply technology and information management tools to support safe processes of care and evaluate the impact on patient outcomes.

Educator:

The graduate of Lipscomb University School of Nursing will demonstrate the ability to assess learning and effectively teach patients about wellness, prevention and acute and chronic illness management.

These competencies will be measured by the following:

- Evaluation tool from senior preceptorship (at time of graduation)
- Employer satisfaction survey and focus group data (6-12 months post graduation)
- Alumni satisfaction survey (6-12 months post graduation)

Essential Competencies for Nursing Practice

Practice as a registered nurse requires many competencies, such as the functional abilities listed below:

- Ability to see, hear, touch, smell and distinguish colors.
- Ability to speak and write with accuracy, clarity and efficiency.
- Manual dexterity, gross and fine movements.
- Ability to learn, think critically, analyze, assess, solve problems and reach judgment.
- Emotional stability and ability to accept responsibility and accountability.

All students enrolled in the BSN program must satisfactorily demonstrate these competencies in the didactic, laboratory, seminar and clinical courses throughout their program of studies.

Admission Requirements

Students who are interested in nursing at Lipscomb University must meet the criteria for admission to Lipscomb University. Upon admission to the university, students may declare the pre-nursing major and begin the course work that is foundational to the upper division nursing program. Students must complete the prescribed 63 credit hours of liberal arts courses.

The Bible requirement for students in this program will be fulfilled in the same manner as with all other Lipscomb students, which require 18 hours for graduation. Chapel requirements will be the same as for all other students enrolled at Lipscomb University with the exception of the semesters in which they are enrolled in upper division nursing courses. During these semesters a modified requirement will be in place.

Students will be admitted to the upper division major after completing four semesters of liberal arts courses at Lipscomb University conditional upon successful completion of the remaining courses.

Admission to the Lipscomb School of Nursing is based on the following factors:

1. Applicants must have at least a cumulative 2.80 grade point average in all pre-nursing courses. Preference will be given to applicants with a GPA of 3.0 and above.
2. Complete and submit an application online to the School of Nursing including letters of recommendation and goal statement by established guidelines.
3. An interview with the Admission Committee is required.
4. Standardized admission Entrance Exam must be completed with score submitted to the School of Nursing by application deadline Dec. 31st.
5. Upon official acceptance into the nursing program the student must provide documentation of immunization requirements to begin clinical placements and the beginning of each subsequent year. See the Nursing Handbook for a list of requirements.
6. A clear criminal background check and negative drug screen are also required by all clinical agencies.
7. Students must meet eligibility requirements for licensure in Tennessee. Graduation requirements for a B.S.N. include the completion of all required courses for the nursing major for a total of 128 semester hours. A student nurse must maintain a “C” average (76 percent and above) in the specific courses required for the nursing major.
8. Student nurses must earn a minimum grade of “C” in all science courses.

Professional Opportunities

After completing the prescribed curriculum, the prelicensure student is eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEX) for the privilege of becoming a registered nurse.

Transfer Student Credit

Lipscomb University School of Nursing offers a competitive program for prospective student nurses and only accepts transfer science courses with a passing grade of a “C” or higher.

Lipscomb University is a participant in the Tennessee Transfer Pathway. For more information, see the catalog section entitled “Tennessee Transfer Pathway.”

Lipscomb University School of Nursing may have articulation agreements not covered by the Pathways. Students are encouraged to check the websites or catalogs of his/her individual community colleges to determine additional transfer agreements available.

Students who transfer to Lipscomb University will be required to meet graduation Bible course requirements, chapel requirements, as well as SALT requirements. These will be determined based on past course work and whether the student has a previous degree.

Requirements for Major

Nursing Major

B.S.N. degree program

Total hours required— 128

General Education courses required—

LU 1103 Lipscomb Seminar
 CO 1003 Introduction to Communication
 EN 1313 University Writing
 LULT Integrated Literature
 PE requirement (one two-hour courses) freshmen only
 PE requirement (two one-hour courses) freshmen & sophomores
 LUHI Integrated History
 Mathematics 1113 College Algebra (based on ACT math scores)

Specific courses required—

Bible 3153*
 Biology 2424, 2434, 2444
 Chemistry 1013 or 1024
 Nutrition 2613
 Psychology 1113, 2423, 4423
 Mathematics 2183 or Psychology 2503 (Statistics)
 Certification course: Medical Terminology online course is required for all pre-nursing students before entering the nursing program.
 Nursing 3013, 3024, 3033, 3045, 3056, 3063, 3074, 3084, 3093, 4016, 4026, 4033, 4042, 4054, 4183, 46nV

Note: Requirements for a science minor are included.

**Meets requirement for Bible 3213, 3433, 4213*

Course Descriptions

Nursing (NURS)

3003 Strategies for Nursing Success (3) F, SP

This course is designed to assist students who have been unsuccessful in completing a required nursing course by offering them opportunities for additional skills practice, study skills practice, math calculation practice, and discussions on the nursing process. Prerequisites: Unsuccessful in any nursing course.

3013 Health Assessment (3) F

An introduction to the basic skills utilized in data collection and physical assessment. The focus is on interviewing skills and systematic physical examination in assessing the physiology and psychosocial cultural health status of patients and various age groups. Campus laboratory provides the opportunity for application of theoretical knowledge and performance of health assessments with healthy individuals. Prerequisites: Biology 2434, 2444 and 3214. Lecture, 2 hours; Lab, 2 hours.



3024 Mental Health Nursing (4) F

A study of theories, concepts and responses related to mental health and illness. Research based theories, concepts and the nursing process are emphasized using critical thinking skills to provide holistic nursing care. Students enroll in clinical.

3033 Pharmacology for Nursing (3) F

Focuses on the major drug classifications, principles of drug actions/interactions and nursing implications. An introduction to pharmacologic knowledge, clinical foundations for drug use as a treatment modality and the role of the nurse in drug therapy are presented. Current trends in pharmacologic therapy will be discussed. Lecture, 3 hours.

3045 Foundations of Professional Nursing (5) F

An introduction to nursing concepts, theories and skills which are basic to the practice of professional nursing. Students also enroll in lab and clinical. Prerequisites: Biology 2434, 2444 and 3214. Lecture, 3 hours; Lab, 2 hours.

3056 Comprehensive Adult Health Nursing I (6) SP

A study of theories, skills and responses of adults in health and illness. Research based theories, concepts and the nursing process are emphasized using critical thinking skills to provide holistic nursing care. Students will also enroll in lab and clinical. Prerequisites: Nursing 3013 and 3045. Lecture, 4 hours; Lab, 2 hours.

3063 Evidenced-Based Practice & Nursing Theory (3) SP

A study of theoretical knowledge and skills used in the nursing process as they relate to evidenced-based practice. Critical thinking, critical reading and critiquing processes will be utilized to explore research findings and apply them to nursing practice. Lecture, 3 hours.

3074 Family Nursing Infant to Adolescent (4) F, SP

A study of theory and skills used in the nursing process related to the child and young family. Students will also enroll in clinical. Prerequisites: Nursing 3013 and 3045. Lecture, 3 hours plus additional clinical hours.

3084 Family Nursing and Women's Health (4) F, SP

A study of theories, concepts and responses related to childbearing individuals and their families. Students will also enroll in clinical. Prerequisites: Nursing 3013 and 3045. Lecture, 3 hours plus additional clinical hours.

3093 Pathophysiology Concepts of Disease (3) SP

A study of concepts and diseases common to general practice of nursing. Critical thinking, research findings and scientific knowledge are applied to analyze clinical nursing implications and patient outcomes. Prerequisites: Biology 2434, 2444 and 3214. Lecture, 3 hours.

- 4016 Comprehensive Adult Health Nursing II (6) F**
Provides a theoretical basis for responding to chronic, acute and complex health patterns as well as specific pathophysiological processes. The focus of the course is application of the nursing process to meet physiological and psychosocial needs of adults in various degrees of wellness and from varying cultural backgrounds. Students also enroll in clinical. Prerequisites: Nursing 3013, 3045 and 3056. Lecture, 3 hours plus additional clinical hours.
- 4026 Advanced Medical Surgical Nursing (6) SP**
Provides a knowledge base for working with critically ill patients across the life span for varying cultural backgrounds requiring complex care. The course incorporates application of the nursing process and use of critical thinking skills to provide complex therapeutic interventions for individuals and groups of patients. In tertiary care settings students will apply advanced nursing skills, standards of ethical professional nursing practice, and Christian values of caring, faith and service to promote health or end of life issues. Students will enroll in clinical. Prerequisites: Nursing 3045, 3056 and 4016. Lecture, 3 hours plus additional clinical hours.
- 4033 Nursing Leadership and Management (3) SP**
Presents leadership and management principles related to nursing practice in the health care system. Primary, secondary and tertiary prevention strategies and skills necessary for the management of appropriate and effective nursing care are explored and analyzed during the course and clinical. Students also enroll in clinical. Prerequisites: Nursing 3045, 3056 and 4016. Lecture, 3 hours plus additional clinical hours.
- 4042 Nursing Capstone (2) SP**
This course is designed to prepare the senior nursing student to enter into professional practice. It explores issues that are pertinent to the practicing nurse and establishes the importance of participation in professional organizations. The course helps students to design a portfolio and CV for their first interview. It also contains the preparation and developmental readiness to sit for the NCLEX licensure exam.
- 4054 Community Health Nursing (4) SP**
A study of the theoretical knowledge and skills used in the nursing process related to individuals, families and the community as a patient. In community based settings students use standards of professional nursing practice to assist patients of all developmental levels with acute and chronic health concerns. Prerequisites: Nursing 3045, 3056 and 4016.
- 4183 Applied Christian Values in Nursing (3) F**
This course is a study in Christian belief and ethics, legal requirements to practice the profession, and the attitudes and values that nurses should exemplify in the compassionate care of patients. The point of intersection of these three concepts will be explored and will set the tone for a practice philosophy. Topics to be covered also include pain and suffering, compassionate care, and professional values.
- 46nV Special Topics in Nursing (1-3) F, SU**
All students are required to choose one nursing elective course. This includes the Summer VESNIP program, which is an unpaid externship through Vanderbilt University Medical Center; Culture of Our Changing Health Care; and other future offerings.

Accreditation:

Accreditation Commission for Education in Nursing
3343 Peachtree Road NE, Suite 850

Atlanta, Georgia 30326

Phone: 404.975.5000

Fax: 404.975.5020

Email: info@acenursing.org

Web: www.acenursing.org

Membership:

American Association of Colleges of Nursing
One Dupont Circle, NW Suite 530

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www.aacn.nche.edu



School of Health Sciences

Department of Kinesiology

Kent D. Johnson, *Professor and Academic Chair*
Anna Rose Anderson, *Assistant Professor*
April Ezell, *Instructor*
J. Lynn Griffith, *Professor*

Ruth N. Henry, *Professor*
Denny S. Porr, *Assistant Professor*
Karen P. Robichaud, *Assistant Professor*

The Department of Kinesiology is dedicated to serving its students by integrating Christian faith and practice with academic excellence while preparing students for careers in exercise science, health and physical education, sport management, and coaching. Exercise science students typically enter careers in the health and fitness industry, or pursue graduate work in exercise and nutrition science, exercise physiology, cardiac rehabilitation, athletic training or other health science areas, such as physical therapy, occupational therapy or therapeutic recreation. Health and physical education students interested in the NCATE-approved health and physical education teaching option work in conjunction with the Department of Education preparing for a teaching career. Students interested in sport management find opportunities in the business side of sport and athletics. The Department of Kinesiology also provides all university students opportunities for developing healthy and active lifestyles through the general activities program. A wide variety of sports, fitness activities and lifetime fitness classes is available for all students through the general education curriculum.

Distinctives of the Kinesiology Department

Exercise science is an interdisciplinary degree program designed to prepare students for work opportunities or graduate/professional school. Students must complete a clinical/field experience in the summer of their senior year as part of their degree program. Nashville provides ample settings for practical experience, regardless of the student's specific academic interest. In previous years, students have gained valuable experience in local hospitals, clinics, rehabilitation centers, health and fitness facilities and YMCAs.

The kinesiology department has an exercise science lab to help broaden students' professional experiences. The lab provides an environment for students to engage in undergraduate research or gain valuable practical experience (equipment includes: metabolic cart, electrocardiography machines, body composition, electromyography (EMG), treadmills, bikes, blood pressure cuffs and other measurement devices.)

The health and physical education program is designed to prepare students for careers as teachers in public and private school settings. These students gain valuable experiences by classroom observations and student teaching. There are abundant opportunities to grow professionally through the state professional organization (TAHPERD) and participation in local programs of excellence (Demonstration Schools). Upon graduation, most students enter the teaching profession.

The sport management program is designed to prepare students for careers in the business side of sport and athletics. These students will gain valuable experience in the business, management and marketing aspects of sports and athletics. Many students will want to pursue an MBA in graduate school to maximize their opportunities in this growing and competitive industry.

Career Opportunities

Exercise Science

- Fitness professional in corporate/hospital setting
- Personal trainer, strength and fitness coach
- Graduate school in exercise and nutrition science, exercise physiology, cardiac rehabilitation and athletic training
- Health science (physical therapy, occupational therapy, therapeutic recreation)

Health and Physical Education (Teaching, K-12)

- Teaching elementary or secondary health and physical education
- Coaching
- Graduate school in physical education

Sport Management

- Athletic director or athletic administrator
- Athletic facility manager
- Health and fitness center manager
- Sports journalism and marketing
- Graduate school in business, management, or marketing

Requirements for Majors

Exercise Science Major

B.S. degree program only

Total hours required— 69

Specific courses required—

Athletic Training 3002
 Biology 1134, 1144, 3514, 3524
 Chemistry 1113, 1211
 Exercise Science 2533, 3002, 3363, 4113, 4123, 4133, 4143, 4152, 4224
 Health 1303, 3302
 Nutrition 2613
 Management 3503 or Marketing 3503
 Physical Education 2203, 2402, 4323, 4502

Note: All students majoring in exercise science must achieve a "C" or above in all department courses required for the exercise science major.

Health and Physical Education Teaching

Major (K-12)

B.S. degree program only

- I. General education required of secondary and K-12 teacher education students
- II. Professional education
- III. Subject matter specialization
Biology 2213
Exercise Science 2533, 3002, 3363, 4113, 4152
Health 1303, 3302, 4342
Physical Education 1181, 2001 or 2012,* 2203, 2402, 2742, 3343, 3383, 4323, 4502
One activity course selected from Physical Education 1031, 1111, 1161, 1311, or 1nnV
One elective activity course from Physical Education 1001-2001 not already taken
Psychology 3513

**Health and Physical Education Teaching majors who take PE 2012 in their freshman year have satisfied the competencies of PE 2001 and do not need to take PE 2001.*

Note: All students majoring in health and physical education teaching must achieve a "C" or above in all department courses required for the health and physical education teaching major.

Sport Management Major

B.S. degree program only

Total hours required— 68

- Specific courses required—
- Accounting 2503, 2513
 - Biology 1003, 2213
 - Chemistry 1013
 - Economics 2503
 - Entrepreneurship 2503, 3543, 4403, 4453, 4503
 - Entrepreneurship 4543 or LJS 3513 or Marketing 3503
 - Exercise Science 2533, 3633, 4113, 4152
 - Math 1113
 - Physical Education 2203, 4323
 - Psychology 1113
 - Sport Management 2503, 3003, 4003

Note: All students majoring in sport management must achieve a "C" or above in all department courses required for the sport management major.

Requirements for Minors

Coaching Minor

Total hours required— 21

- Specific courses required—
- Athletic Training 3002
 - Exercise Science 2533, 3002, 4113
 - Health 3302
 - Physical Education 2222, 2402, 3452, 4223

Exercise Science Minor

Total hours required— 21

- Specific courses required—
- Athletic Training 3002
 - Biology 2213 or Biology 3514 and 3524
 - Exercise Science 2533, 4113, 4133, 4224
 - Nutrition 2613

Health Minor

Total hours required— 18

Specific courses required—

- Health 1303, 3302
- Nutrition 2613
- Psychology 3513

Elective courses include seven hours chosen from the following:

- Health 4342
- Psychology 2313, 2423, 3453
- Sociology 1123, 2103

Course Descriptions

Athletic Training (AT)

3002 Prevention and Care of Athletic Injuries (2) SP

A comprehensive study of the methods of preventing and caring for injuries incurred in an athletic, exercise science or physical education program. Emphasis is placed upon the practical aspects of care and treatment.

Exercise Science (EX)

2533 Kinesiology (3) F, SU

A study of the science of human motion. Emphasis is upon anatomical analysis of body movement. This course embraces such areas as physics for mechanical and gravitational laws; anatomy for structures of bone, muscle, and nerve; and physiology for the action of muscle and nerve. Biology 3514 and 3524 or Biology 2213 recommended.

3002 Mechanics of Movement (2) SP

A study of the practical application of muscular movement and motor patterns to exercise and sport.

3363 Biostatistics (3) F

This course is designed to help students learn elementary statistical methods and applications of these methods in a physical education, exercise science or physical therapy setting. The course content will cover basic descriptive and inferential statistical analyses, with an emphasis on the correct application of analyses. The course also involves measurement concepts in research for all types of human performance. Students will be introduced to statistics with computer applications. Prerequisites: Either Mathematics 1043, 1053, 1113, 1123 or 1314.

4113 Exercise Physiology (3) F

A study of the physiologic adaptations during exercise and sport performance. Topics include nutrition and sports performance, metabolism and energy pathways, pulmonary, ventilatory and cardiovascular regulations during exercise, muscle function during exercise performance and the effects of exercise on body composition. Prerequisites: Biology 3514 and 3524 or 2213 or permission of instructor.

4123 Exercise Physiology Lab (3) SP

A laboratory class designed to assess the topics covered during Exercise Physiology. Lab topics include graded exercise testing (GXT), resting and exercise electrocardiography, strength and power assessment and other clinical exercise tests. Prerequisite: Exercise Science 4113.

4133 Exercise Evaluation and Prescription (3) SP
A study of health and fitness evaluation and prescription objectives. This course is designed to meet the KSA's for the ACSM HFS certification exam. Prerequisite: Exercise Science 4113.

4143 Special Topics in Exercise Science (3) SP
This course focuses on special areas in exercise science. Topics include exercise response under extreme physical stress, exercise and environmental conditions, exercise and children, exercise and the geriatric population, ergogenic aids and sports performance, and exercise in other special populations. Prerequisite: Exercise Science 4113.

4152 Principles of Teaching Conditioning Exercise (2) SP
This course will introduce students to a variety of methods of teaching and leading aerobic and resistance training exercise in a group and/or individual setting. Each student will be instructed on and given practical experience in teaching and leading several types of exercise, including: aerobics, water exercise, strength/toning and strength/resistance exercise. Prerequisites: Exercise Science 2533, 4113. This course may satisfy the SALT Tier II requirement.

4224 Externship in Exercise Science (4) SU
The student will select a wellness center, fitness center or clinical site for practical experience. Prerequisites: Exercise Science 4113, 4133 and senior standing.

480V Independent Study and/or Research in Exercise Science (1-4) F, SP, SU
This course is designed to give students an opportunity to participate with faculty on an independent project in exercise science or physical education. Students should select an appropriate project and under the guidance of a faculty member, complete the proposed project. The project can be either laboratory or library oriented. A paper is usually required at the completion of the course. Repeatable for credit (maximum credit six hours). Prerequisite: Permission of academic chair.

Health (HL)

1303 Healthful Living (3) F, SP
An examination and application of the facts and principles of the science of health and nutrition as they pertain to personal, family and community welfare.

3302 First Aid and Emergency Care (2) F, SP, SU
A course designed to provide the student with knowledge and skills to meet the needs of most situations requiring emergency first aid care, with emphasis on personal safety and accident prevention. Basic Life Support (BLS) and Standard First Aid courses completion certificate will be given.

4342 Methods of Teaching Health (2) SP
Offered even-numbered years
A course consisting of history, philosophy, current trends, basic issues and principles underlying health education. On the basis of these principles, a critical appraisal is made of the health curriculum at the various grade levels, health teaching methods and units for teaching in health.

Physical Education Activity Courses (PE)

(Physical Education 1001–2001 satisfy the general education physical education activity requirement.)

1001 Physical Fitness (1) F, SP
A course designed to emphasize conditioning activities, fitness testing and self-evaluation.

1021 Volleyball (1) F, SP
Instruction in the fundamental skills and basic knowledge of volleyball.

1031 Golf (1) F
Instruction in the fundamental skills and basic knowledge of golf. Fee required.

1091 Softball (1) F
Instruction in the fundamental skills and basic knowledge of softball.

1111 Badminton Fundamentals (1) F, SP
Instruction in the fundamental skills and basic knowledge of badminton.

1121 Jogging (1) F, SP
Instruction in the proper way to improve physical fitness through walking, jogging, running and stretching exercises.

1151 Weight Training (1) F, SP, SU
Instruction in the fundamental skills and basic knowledge of weight training.

1161 Racquetball (1) F, SP, SU
Instruction in the fundamental skills and basic knowledge of racquetball.

1181 Rhythm and Dance for Schools (1) SP
Instruction in rhythms and dance typically taught in a school setting.

1221 Aerobics (1) F, SP
Instruction and participation in floor, low impact, and bench aerobics.

1311 Tennis Fundamentals (1) F, SP, SU
Instruction in the fundamental skills and basic knowledge of tennis.

1nnV Selected Activities in Physical Education (1-2) F, SP, SU
This course will vary in content each semester. Possible topics include: disc golf, self-defense, SCUBA, backpacking, snow skiing, fitness yoga, Golf for Business and Life and other possible offerings. May be taken more than once for credit, but the same topic cannot be repeated for credit. A special fee may apply, depending on the experience. Some topics have a prerequisite.

2001 Lifetime Fitness (1) F, SP
A course designed to make students more aware of healthy lifestyle habits and help them make wise fitness/wellness decisions about their current and future lifestyle habits. Each student will participate in a fitness/nutrition evaluation and establish goals for an exercise program during the course.

2012 Lifetime Wellness (2) F, SP
This course is an introduction to fitness and wellness. Students will take a fitness assessment and explore ways to establish fitness goals and improve their overall wellness, including participation in an exercise program. Other topics include: healthy nutrition and weight management, managing stress appropriately and understanding the importance of engaging in a healthy lifestyle. This course is available for freshmen only.

Physical Education Courses (PE)

2203 Foundations in Kinesiology (3) F, SP

A general introduction to the field of kinesiology, designed to give the student an orientation into the historical background, nature and opportunities available in the field.

2222 Introduction to Coaching (2) F

Offered odd-numbered years on demand

This course is designed to introduce students to the concepts of coaching. It will give students an overview of the coaching profession. Topics include: developing a coaching philosophy, incorporating sport science into coaching, the psychology of coaching and managing athletes in today's society.

2402 Concepts of Motor Learning (2) F

A study of the psychological, physiological and kinesiological acquisition of physical skills. This course also provides an in depth look at proper procedures for teaching simple and complex physical skills.

2742 Methods of Teaching Sports Skills (2) F

Offered even-numbered years

This course is designed to introduce students to a variety of individual and dual sports, team sports and various activities that are developmentally appropriate for middle and secondary physical education students. The content will cover the basic skills, rules, strategies and history of various activities. There will be a \$50 fee for off campus activities.

3312 Camp Counseling (2) SP

The philosophy and objectives of an organized camping program are covered. An overnight camping trip and observations of recreational facilities are required in this course.

3323 Health, Physical Education and Wellness for Children (3) F, SU

The physical education and wellness section of this course is designed to help students understand developmentally appropriate physical education for children in grades K-6. Major topics include: goals and objectives, human growth and development, curriculum (movement education, games and sports, educational gymnastics, rhythms, physical fitness and wellness), organization and planning, materials, teaching strategies and assessment. The health section will involve a study of the organization and administrative details relative to the conduct of a school health program with emphasis on health services, healthful school living and health instruction.

3343 Methods of Teaching Secondary Physical Education and Wellness (3) SP

Offered odd-numbered years

This course is designed to help students prepare to teach developmentally appropriate physical education to the middle and secondary school aged student. Major topics include: goals and objectives, human growth and development, adapted P.E. for special needs, history, organization and planning, teaching strategies and techniques, materials, curriculum and evaluation. This course may satisfy the SALT Tier II requirement.

3383 Methods of Teaching Elementary Physical Education (3) F

Offered odd-numbered years

This course is designed to help students prepare to teach developmentally appropriate physical education to elementary and middle school aged children. Major topics include: goals and objectives, human growth and development, adapted P.E. for special needs, history, organization and planning, teaching strategies and techniques, materials, curriculum (movement education, games and sports, educational gymnastics, rhythms, physical fitness and wellness) and evaluation.

3452 Psychology of Coaching (2) F

Offered even-numbered years on demand

Psychological concepts as they relate to coaching individual, dual, and team sports.

4223 Field Experience in Coaching (3) SP

Offered odd-numbered years on demand

This course is designed to give students a coaching experience with an experienced coach. Requirements include logging 120 hours in two different sports, attending practice sessions, article reviews on the two sports, keeping a journal of learning experiences and other requirements assigned by the coach or instructor. Prerequisite: Physical Education 2222, 3452 or permission of instructor.

4323 Administration of Exercise Related Programs (3) F

A course dealing with the plans of organization, supervision, administrative policies, budget and finance, legal aspects, staff, physical plant, equipment and facilities, scheduling programs of physical education and the problems and procedures in conducting intramural and interscholastic athletic contests.

4502 Seminar in Kinesiology (2) SP

This course provides a review of the major concepts for those students in the department. The student will demonstrate a fundamental understanding of core competencies important to the discipline. To be taken in the student's last spring semester. Prerequisites: Exercise Science 2533, 3363, 4113, Physical Education 2203 and 4323.

Sport Management Courses (SPMG)

2503 Introduction to Sport Management (3) SP

This course is an exploration of the link between sport, commerce, and culture. Understanding sport as a culture and business intertwined will be accomplished through emphases on the major management principles that are needed to operate and succeed in the sports industry.

3003 Sport Management Practicum I (3) SP

The purpose of this course is to introduce the student to all the aspects involved in the management of athletics and recreation. This practicum will be on the university campus. The student will work half of the semester with athletics and half with campus recreation. Prerequisite: Junior status.

4003 Sport Management Practicum II (3) SP

The purpose of this course is for the student to acquire practical work experience with one of the sport organizations in the Nashville, Tenn. area. Prerequisite: Senior status.

Department of Nutrition

Autumn C. Marshall, Professor and Academic Chair

Nancy H. Hunt, Associate Professor and Director, Didactic Program in Dietetics

Anne Lowery, Assistant Professor and Director, Dietetic Internship Program

The mission of the Department of Nutrition is to assist students with the ability to communicate effectively, to think critically and to develop the breadth and depth of knowledge needed by its graduates for participation in careers in the field of nutrition. The primary purpose of the Department of Nutrition is to offer a strong, general Bachelor of Science degree in dietetics from an accredited Didactic Program in Dietetics (DPD) and a Bachelor of Science degree in food systems management. This is done in the context of a private, Christian, liberal arts education. The overall focus of the department is to train individuals who can serve in a wide variety of roles, from medical nutrition therapy to public health to health care food service management. The knowledge base of the discipline of nutrition includes concepts from the study of food and human nutrition, biology, chemistry, human development and social interaction, and resource management. The knowledge base of the discipline of food systems management includes concepts from the study of food and human nutrition, food safety, financial and human resource management, marketing and legal aspects of food service. The overall goal of the program is to assist dietetics majors in obtaining placement in a dietetic internship (DI) program and to assist food systems management majors in finding employment in the food service industry. Students who complete a major in dietetics and are matched to a DI program will gain the supervised practice necessary to be eligible to write the Registration Examination for Dietitians.

Distinctives of the Nutrition Department

A.N.D. Accredited Didactic Program

Lipscomb has a Didactic Program in Dietetics (DPD) that is accredited by the Academy of Nutrition and Dietetics. Students who seek to become Registered Dietitians must complete a 1,200-hour supervised practice experience in an A.N.D.-accredited Dietetic Internship program beyond graduation from Lipscomb. The undergraduate program's acceptance rate into dietetic internships is above 80 percent, much higher than the national average. Students in the DPD program study normal nutrition at all stages of life, nutrition in the treatment of disease and the biochemistry of nutrition. Students have the opportunity to gain experience in the field at an undergraduate level in nutrition education for all ages, clinical nutrition and food systems management. An automatic minor in distributive science is built into the dietetics major. Details are provided by the director of the didactic program in dietetics at Lipscomb.

Food Systems Management

The concentration in food systems management combines the study of food and nutrition with the study of management for students interested in restaurant management and the culinary arts. Students study food, the management of financial and human resources, and legal aspects of business. Students have the opportunity to gain experience in the field, learning about human resource management, purchasing, inventory, and event planning and management. Students in this major earn an automatic minor in distributive business and have the necessary background to succeed in both culinary training and graduate school in business management.

Certificate Program in Dietetics

The Certificate Program in Dietetics provides the course work necessary for gaining the foundation knowledge and skills needed in a dietetic internship program. Unlike the traditional DPD, this program provides only the major courses and does not grant a second baccalaureate degree. The program is designed to meet the needs of students who already have a bachelor's degree, and provides the course work necessary to receive a certificate (verification statement) from an accredited DPD program. The verification statement grants the eligibility to enroll in an accredited dietetic internship program, which is necessary to complete before taking the Registration Examination for Dietitians. Students are welcome to transfer hours into the certificate program, and courses completed at Lipscomb may be taken at the undergraduate or graduate level. However, a minimum of 18 hours must be completed at Lipscomb University, and students wishing to take graduate courses must apply to the master's program in Exercise and Nutrition Science. After a transcript review, students will be given a list of courses that remain to be completed at Lipscomb.

A.N.D. Accredited Dietetic Internship Program

Lipscomb is the only college among the Christian colleges in the South to house an accredited Dietetic Internship (DI) Program, and the program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The internship program began in 2002 and is a post-baccalaureate, supervised practice program in which students complete more than 1,200 hours of supervised practice and complete a minimum of 3 hours of graduate course work. Interns complete rotations in a wide variety of settings, including the clinical, community and food service areas. Interns attend the annual Food and Nutrition Conference and Expo, Nashville District Dietetic Association (NDDA) and Tennessee Academy of Nutrition and Dietetics (TAND) meetings, TAND's annual Day on the Hill conference,

and an RD Exam review workshop. Upon completion of the internship, students are eligible to write the Registration Examination for Dietitians. Lipscomb's first-time pass rate on the exam is higher than 80 percent, a requirement to maintain accreditation.

Career Opportunities

Students who choose a major in dietetics and food systems management at Lipscomb have numerous career opportunities in this field, including:

Dietetics

- Community nutrition
- Clinical nutrition
- Food journalism
- Food marketing
- Food systems management
- Education
- Wellness centers
- Public health
- Sports nutrition

Food Systems Management

- Food systems management
- Hospitality industry
- Institutional management
- Food marketing
- Culinary school
- Food journalism
- Research and consultation

Requirements for Major

Dietetics Major

B.S. degree program only

Total hours required— 83

Specific courses required—

Accounting 2503
Biology 2424, 2434, 2444
Chemistry 1013, 1023, 1034
Exercise Science 4113
Nutrition 1011, 1213, 2613, 3213, 3223, 3603,
3633, 4093, 4213, 4223, 4233, 4503, 4513,
4613, 4623
Management 3503, 4453
Mathematics 2183
Psychology 1113

Note: This major meets all competencies required by the Academy of Nutrition and Dietetics for eligibility to apply for a dietetic internship. A minor in distributive science is built into this program.

Note: All courses required for this major must be completed with a grade of "C" or higher or be repeated.

Food Systems Management Major

B.S. degree program only

Total concentration hours required— 68

Specific courses required—

Accounting 2503, 2513
Business Administration 3703
Biology 2424
Chemistry 1013, 1023
Economics 2503, 2513
Management 3503, 3613, 4453
Marketing 3503, 3573
Nutrition 1011, 1213, 2613, 3213, 4043, 4093,
4213, 4223, 4233
Psychology 3323

Note: A minor in distributive business is satisfied with this program.

Requirements for Certificate Program in Dietetics

Certificate Program in Dietetics

Total hours required— 82

Specific courses required—

Accounting 2503
Biology 2424, 2434, 2444
Chemistry 1013, 1023, 1034
Exercise Science 4113 or EXNS 5003
Nutrition 1213, 2613, 3213, 3603, 4093, 4213,
4223, 4233, 4503, 4513, 4613, 4623
Nutrition 3223 or EXNS 5013
Nutrition 3633 or EXNS 5253
Management 3503, 4453
Mathematics 2183 or EXNS 5063 or EXNS 5103
Psychology 1113

Note: EXNS courses are graduate courses and can be found in the Lipscomb University Graduate Catalog.

Requirements for Minor

Foods Minor

Total hours required—18

Specific courses required—

Chemistry 1013
Nutrition 1213, 2613, 3213, 4213, 4223

Nutrition Minor

Total hours required—18

Specific courses required—

Nutrition 1213, 2613, 3603, 3633 or 4613, 4503, 4513

Course Descriptions

Nutrition (NUTR)

1011 Professional Orientation (1) F

A study of the disciplines of nutrition and foods as well as career opportunities within the related areas of specialization. Required of all majors; to be completed prior to declaration of major in the department.

1213 Basic Foods (3) F, SU

Fundamental principles of food selection and preparation. Lecture, 2 hours; Laboratory, 3 hours.

2613 Principles of Nutrition (3) F, SP

Nutritive value of foods and the factors influencing the body's requirements throughout the lifespan.

3213 Food Science and Production (3) SP

Emphasis on the scientific aspect of the study of foods; multicultural aspect of food selection and production; and planning, production and service of meals. Individual experimentation using sensory techniques to evaluate the acceptability of food; individual planning, preparation and presentation of meals taking into consideration nutritional and cultural requirements, budget restraints, timing of preparation, and methods of service. Prerequisite: Nutrition 1213 and Chemistry 1013 with a grade of "C" or higher. Lecture, 2 hours; Laboratory, 3 hours.

- 3223 Nutrition Education and Health Promotion (3) SP**
Application of nutrition principles to nutrition education and health promotion, including weight management, sports nutrition, eating disorders and disease prevention. The course includes program development, assessment and evaluation. An emphasis on methods of teaching, principles of effective communication, and motivation are covered.
- 3603 Community Nutrition (3) F**
A study of the nutritional needs of the people in the community and how to meet the needs. Includes program planning, implementation, evaluation and field experience. Prerequisite: Nutrition 2613. This course may satisfy the SALT Tier II requirement.
- 3633 Nutrition Across the Lifespan (3) F**
Presents the major special nutrition issues common at different period of the life cycle including pregnancy, infants, children, adolescents and the elderly. Prerequisite: Nutrition 2613 or consent of instructor. This course may satisfy the SALT Tier II requirement.
- 37nV Special Topics (1, 2, 3)**
Topics of special interest to students and faculty which do not fit one of the current classifications. Students may repeat this course when course numbers are different. These courses are advanced and are intended for students genuinely interested in their content. Permission of the professor may be required. Specific titles will be announced in the course schedule.
- 4043 Practicum in Dietetics (3) SU**
Supervised field work in institutions or agencies that provide nutrition services to individuals or families in the clinical, community or food service areas. The student observes, works and contributes to the typical operation of all three settings. Prearranged and supervised experience must be completed during one term, with regularly scheduled meetings with the instructor and/or supervisor. To be taken in the junior or senior year, after completing a minimum of nine upper-division hours in the concentration. May be repeated for up to 6 hours credit. Prerequisite: Nutrition 4513. This course may satisfy the SALT Tier II requirement.
- 4093 Senior Seminar (3) SP**
Comprehensive survey of current trends and projects in nutrition and food systems. The course will include participation in Grand Rounds activities in the College of Pharmacy and Health Sciences (to include using the Nutrition Care Process in an interprofessional team working with a simulated patient case.) Prerequisites: Declared major in dietetics or food systems management, Nutrition 1011 and 4623 and senior standing.
- 410V Special Topics (1-3) F, SP, SU**
Topics of special interest to students and faculty which do not fit one of the current classes. Students may repeat this course when course topics are different. These courses are advanced and are intended for students genuinely interested in their content. Permission of instructor may be required. Specific titles will be announced in the course schedule.
- 420V Independent Study (1-3) F, SP, SU**
Offered on demand
Advanced study or research in a specific area of nutrition or foods. Prerequisites: Courses in the field in which independent study is to be done and with the approval of the academic chair. Open to juniors and seniors only. This course may satisfy the SALT Tier II requirement.
- 4213 Food Systems Management I (3) F**
Principles of quantity food purchasing, preparation and production, as well as equipment selection and cost control.
- 4223 Food Systems Management II (3) SP**
Resource management as applied to food service. Analysis of design production, service problems and food safety requirements related to quality of food prepared, stored and served in volume. Prerequisite: Nutrition 4213. Corequisite: Nutrition 4233.
- 4233 Quantity Food Production, Safety and Sanitation (3) SP**
Allows students to apply the foundations learned in Nutrition 1213, 3213 and 4213 to the quantity production and service of foods in an on-campus food production operation. Focus will be on quantity food production experience through application of principles for determining needs; procuring, producing and storing foods in quantity with the understanding of institutional equipment selection; use and maintenance and the practice of proper safety and sanitation measures. ServSafe certification from the National Restaurant Association is gained by the student upon successful completion of the course and passing of the ServSafe examination. Prerequisite: Nutrition 4213. Corequisite: Nutrition 4223.
- 4503 Medical Nutrition Therapy I (3) F**
Therapeutic nutrition based on modification of the nutrients in a normal diet for prevention or correction of various cardiac, hepatic, pancreatic and gastro-intestinal disorders. Prerequisites: Nutrition 2613, Biology 2434, 2444, and 2321 or equivalent.
- 4513 Medical Nutrition Therapy II (3) SP**
Therapeutic nutrition based on modification of the nutrients in a normal diet for prevention or correction of various diseases: renal, cancer, diabetes, metabolic stress and inborn errors of metabolism. Prerequisites: Nutrition 4503 or equivalent.
- 4613 Nutritional Biochemistry (3) SP**
A senior level course discussing the biochemistry of digestion, absorption and metabolism of foods and specific nutrients. Special emphasis will be given to the interrelationship of metabolic pathways and the impact of nutritional biochemistry on health and disease states. Prerequisites: Nutrition 2613 and 4503, Chemistry 1034, with a grade of "C" or higher.
- 4623 Clinical Nutrition Documentation (3) F**
A senior level course discussing medical terminology and standardized language for the Nutrition Care Process of the Academy of Nutrition and Dietetics and documentation of the Nutrition Care Process in the medical record. The course will include participation in the Grand Rounds activities in the College of Pharmacy and Health Sciences (to include nutrition documentation as it applies to a patient case in the Grand Rounds setting.) Prerequisites: Nutrition 4503 and 4513 or equivalent, or permission of the instructor.



College of Professional Studies

Charla Long, Dean

Teresa Clark, Academic Director,
Integrated Studies/Organizational Leadership

The College of Professional Studies was designed to address current workforce needs by offering professional, continuing and interdisciplinary studies. The college was born out of the idea that education is quickly changing and students should be equipped with a degree that keeps pace with fluctuating market needs. This bold approach to higher education allows Lipscomb to cultivate partnerships with businesses and professional associations in order to develop new certificate and degree programs for students who seek to advance their careers in growing industries.

We use a rich mix of on-campus, online and hybrid formats to increase convenience and enhance learning. Often, face-to-face sessions are taught in the evenings—both on campus and off-site—to accommodate professional students. Competency-based learning provides an opportunity for life and professional experience to be evaluated for credit, for curricula to be personalized for students and for teaching styles to be tailored to the individual. Above all, the College of Professional Studies is flexible. We are continually asking: *what is college?*—and we are constantly rethinking the answer.

The College of Professional Studies houses Lipscomb's successful Adult Degree Program. The Adult Degree Program is a multi-disciplinary program that offers working students the opportunity to earn a college degree in a unique way. Evening and online courses are designed to accommodate busy schedules. Courses are offered in a compressed format during eight academic terms throughout the year.

The College of Professional Studies also oversees the Bachelor of Arts or Science in integrated studies program. This is a customizable degree that allows students to choose two concentrations of interest, or students may select the aging track with interdisciplinary concentrations. This major includes a core of courses covering calling and vocation.

Also, the Bachelor of Professional Studies in organizational leadership began in Jan. 2014 as the first competency-based degree approved by the Southern Association of Colleges and Schools (SACS). As part of this degree, students undergo an initial behavioral assessment of their demonstrated competencies with the potential to earn college credit following the assessment. Students then work with faculty coaches in online, self-paced modules to increase their levels of mastery in competencies where they possess gaps. Students choose a subject matter concentration as part of their course of study. Integrated Studies may also be pursued in a competency-based format.

In addition, the College of Professional Studies houses the School of TransformAging. Through this program, Lipscomb University has made a commitment to help find lasting and meaningful solutions to long-term and post-acute care challenges in the United States. The School of TransformAging aspires to offer the nation's most innovative undergraduate and graduate degrees in Aging Services and to educate a new workforce who will passionately pursue careers serving older adults. Participants in this program can obtain a Bachelor of Arts or Science in integrated studies with an aging track and a Graduate Certificate in aging services leadership, pastoral care and aging, or serving the aging consumer. Students may also pursue a Master of Professional Studies in aging services.

The offerings of the College of Professional Studies will continue to evolve as we develop new certificate and degree offerings for students who seek to advance their careers in growing industries and emerging fields.

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Adult Degree Program

Lipscomb University's Adult Degree Program (ADP) offers a variety of formats and is designed to accommodate the schedules of busy adults. The ADP maintains an outstanding reputation among the business and educational communities in the greater Nashville metropolitan area. The hallmark of the program is an applications-oriented curriculum taught by faculty members who are recognized experts in their respective fields of study. Professors tailor the courses to address both academic theory and the most pressing discipline-specific topics happening in local, national and international environments. Students are well-prepared to advance both professionally and personally. Courses are offered in the evening, online or in a hybrid in an eight-week format during eight academic terms throughout the year. Non-degree seeking students may take classes for professional development, personal enrichment and preparation for graduate studies. Students preparing for the CPA exam may enroll in the evening Certificate of Accounting Program.

Degree Programs

Bachelor of Business Administration

- Accounting
- Corporate Management
- Human Resources

Bachelor of Science

- Education (Licensure K-6 and Early Childhood)
- Law, Justice and Society
- Information Technology Application (ITA)
- Information Technology Management (ITM)
- Integrated Studies (Customizable or Aging)
- Psychology

Bachelor of Arts

- Law, Justice and Society
- Integrated Studies (Customizable or Aging)

Bachelor of Professional Studies

- Organizational Leadership
(a competency-based degree; please see page 214 for details)

Bachelor of Social Work

Certificate of Accountancy Program

Institutional merit scholarships (academic transfer scholarships), merit and need-based aid, and veterans' benefits are available for degree-seeking students in the ADP who qualify. See the Financial Aid section of this catalog for more information.

For more information, academic counseling and/or evaluation of previous college course work contact John Williams, admissions counselor, 615.966.5279.

Adult Degree Program students and those with at least four years of military or work experience may be eligible to seek Lipscomb University credit hours for college-level learning experienced outside the classroom. Interested students should contact the College of Professional Studies to begin the process.

Prior Learning Assessment through Portfolio Evaluation

Lipscomb University acknowledges certain adult learners come to the university with a significant body of professional or voluntary experience that may have equipped them with knowledge and learning that can be demonstrated through the portfolio process. Therefore, the mission of prior learning assessment through portfolio evaluation is to recognize and grant undergraduate academic credit for demonstrated achievement of higher learning objectives.

1. The College of Professional Studies will administer the self-evaluation process and supply the students with a copy of the learning outcomes for the course(s) for which they desire to seek credit through the portfolio process. Students who demonstrate strong potential for the portfolio process will be invited to register for INST 2000 Portfolio Workshop. A new self-evaluation form is required for each individual portfolio.
2. INST 2000 Portfolio Workshop will be required as a prerequisite to submitting a portfolio for credit; the course itself is non-credit and will run online for four weeks in Aug. and Jan., respectively. A prerequisite to INST 2000 will be at least a "C" in Composition I or Lipscomb Seminar. Students will pay \$500 for the course, with one portfolio review included in the fee. They will not be guaranteed portfolio-based credit simply for completing the portfolio preparation course. Students must complete all the assignments associated with the PLA course in order to continue with the portfolio process. Students who do not successfully complete the course within the allotted four weeks but wish to pursue the portfolio process must re-enroll and pay the fee to re-take it.

3. The portfolio will be completed to meet the learning outcomes of the particular course for which the student is seeking credit and submitted to the College of Professional Studies. Fall and spring portfolios are due by the last day of ADP Term I for that respective semester, and summer portfolios are due by the end of Junemester. Students not submitting their portfolio by the end of the semester for which they completed a self-evaluation must update their form with the College of Professional Studies. For each course a student is seeking credit, a separate portfolio must be created. Each portfolio yields either no credit or the number of credits of the course being challenged.
4. Courses generally deemed ineligible for portfolio credit include practicum or field study, internships, travel, senior projects, major capstones and 4000-level courses.
5. The first portfolio is included in the cost of the PLA preparatory course. Students will pay a \$300 review for each subsequent portfolio. The \$300 will be charged to the student's account.
6. Students may earn up to 30 nontraditional credit hours through portfolio evaluation in combination with credit-by-exam, CLEP and DSST but must abide by academic program and graduation requirements as stated in the Undergraduate Catalog including number of credits required to be earned at Lipscomb University.
7. If the student does not receive an "S" for satisfactory, but the assessor identifies corrections, the portfolio will be returned to the student with noted areas to improve. The student will have two calendar weeks from the date of return in which to make the corrections and resubmit. The assessor will reevaluate and rescore the portfolio within two calendar weeks of its resubmission. If the student is not granted credit after the edit process, that student must enroll in the course itself in order to satisfy that course requirement. The student may submit a separate portfolio seeking credit for a different course. Assessors reserve the right to return a portfolio with the grade of "U" for unsatisfactory without noting areas for improvement.
8. If the student receives credit for the course for which the portfolio was compiled, a Credit By Portfolio form (similar to the Credit By Special Examination Form) will be completed, which will require signatures from the faculty assessor, department chair, dean of the college, provost and registrar. The student will pay a \$70 transcription fee (the same amount currently charged for transcribing credit-by-exam, CLEP, or DSST) and the course will appear with an "S" to indicate it has been satisfactorily completed.

Integrated Studies

Teresa Clark, *Academic Director*

Bachelor of Arts or Science in Integrated Studies

Integrated studies allows students to custom design a course of study that matches their professional and personal interests and goals. The program provides students with a cross-disciplinary perspective and prepares students for a variety of careers with breadth of knowledge and excellent problem-solving skills for today's rapidly changing work environment.

The Integrated Studies program permits students to take courses from several academic areas to prepare themselves for a job market that requires skills and knowledge from more than a single traditional academic discipline. These students may be motivated by specific interests not recognized in traditional majors but can take advantage of the cross-disciplinary perspective.

Additionally, the program is ideal for students who have earned college credits elsewhere. The program is flexible and most courses can be counted toward the degree if the student can articulate a legitimate connection to the individual development plan.

The major must include two concentration areas (12 hours per area) with at least six upper-division credits per concentration. No course may be counted in more than one concentration. Students may select Organizational Leadership as one of their concentrations for a competency-based option.

Students must take 12 additional credit hours of related upper-division elective courses. These courses may be drawn from the concentration areas, selected from other areas complementary to the student's individual development plan, or come from credits earned through the CORE Competency Assessment Center. No more than 24 semester hours in business course work will count toward graduation requirements.

In addition to General Education, Bible, and a minor, the Integrated Studies major requires 49 credit hours based on the following:

Core	13 credits
Including: UN 1201, INST 2113, 3003, 4003, & BI 2893	
Concentration 1	12 credits
Concentration 2	12 credits
Upper-Division Electives	12 credits

In addition to the customizable Integrated Studies major, students working in or interested in pursuing careers in the field of aging studies, may pursue a Bachelor of Arts or Science in Integrated Studies: Aging. To do so, students should select two of the following concentrations:

Concentration 1: Management

MG 3403	Servant Leadership
MG 3503	Principles of Management
MG 4403	Organizational Behavior: Global Perspectives
MG 4453	Human Resource Management

Concentration 2: Psychology

PS 2313	Behavior Modification
PS 2423	Lifespan Development
PS 3453	Death and Dying

Select one additional upper-division PS course

Concentration 3: Family and Consumer Sciences

FS 3433	Family Interaction
FS 3503	Family Problems
FS 3513	Family Resource Management
FS 4403	Families in Later Adulthood

Concentration 4: Social Welfare

SW 1103	Introduction to Social Work
SW 2353	Effects of Disability
SW 3113	Race and Ethnic Groups
SW 3223	Social Work with Aging

Any student may minor in aging by completing the following courses:

INST 3013	Aging Across the Disciplines
SW 3223	Social Work with Aging
NUTR 3633	Nutrition Across the Lifespan
MG 3503	Principles of Management
FS 4403	Families in Later Adulthood
PS 3453	Death and Dying

Course Descriptions

Integrated Studies (INST)

2013 **Prior Learning Self-Assessment (3) F, SP**

This online course is designed for students planning to prepare one or more portfolios in an effort to seek college credit hours for prior learning gained through work experience. Through one-on-one meetings and regular communication with the professor, students will work to organize an initial portfolio related to a particular course for which credit is being sought. This will serve as preparation for any subsequent portfolio submissions.

2113 **Discovering Your Calling (3) F, SP**

This class begins with a retreat and will allow students to utilize spiritual discernment, psychological testing and a gift inventory to determine their vocation (which comes from the Latin root “to call”). Students will determine where their talents and skills may be calling them and then create an individualized academic development plan to guide their studies at Lipscomb. Prerequisite or Corequisite: UN 1201.

3003 **Changing Lives Through Your Vocation (3) SP**

Students complete either a Service-Learning internship or project where they apply vocational skills to benefit the community at large. Working independently with a faculty coach, the student will design the right project for his/her chosen vocational calling and Integrated Studies areas. Prerequisites: UN 1201, INST 2113 and BI 2893.

3013 **Aging Across the Disciplines (3) F**

This course is designed to provide an introduction to the social, psychological, and physical dimensions of aging. We will examine the aging process experienced by the individual and how the aging of the population affects our society as a whole.

4003 **Senior Project: Restorative Responses (3) SU**

This project requires the student to integrate and apply the knowledge learned in the classroom on a real-life project. The project must require the student to demonstrate competency in the two chosen concentration areas. Prerequisites: UN 1201, INST 2113, BI 2893, INST 3113.

4103 **Research Methods (3) F**

This online course is intended to provide an introduction to research design and methodology for undergraduate students. Specific topics include survey design, interview protocol, article critique, program evaluation, and ethics.

Organizational Leadership

Teresa Clark, Academic Director

Lipscomb University has launched the first and only competency-based education program approved by the Southern Association of Colleges and Schools (SACS), a Bachelor of Professional Studies in Organizational Leadership. This program is based on the research of Organization Systems International (OSI), using OSI's Polaris® competency model. Polaris includes 41 competencies, of which Lipscomb's program uses 17, deemed to be the most desired competencies a graduate of Lipscomb should possess, as determined in conjunction with OSI. Other organizations utilizing OSI's unique competency system include Wendy's International Inc., Service Master, Nike, Petco and AT&T. While OSI has worked with a small number of higher education institutions, Lipscomb is truly the pioneer of a degree program based on this competency model.

Distinctives of the Organizational Leadership Major

The College of Professional Studies offers competency-based assessments through our CORE Assessment Center. Students in the Bachelor of Professional Studies (B.P.S.) program may be assessed in 17 competency areas. For the B.P.S. degree, students who are assessed at a Level 2 (3000-level) or above badge can transcript college credit toward their major. Students placing at Level 1 (2000-level) may receive elective credit. Students may apply up to 30 credits earned through competency assessment toward their B.P.S. degree. In addition to credits, students will receive an electronic or digital badge for each level of competency they demonstrate in the CORE Assessment Center, beginning at Level 1. Students who visit the CORE Assessment Center but do not demonstrate competency at the level needed for their degree will then register for an online, self-paced module that includes activities and personal coaching with a faculty member to help them reach the necessary or desired competency level.

The Bachelor of Professional Studies in Organizational Leadership allows students to make the most use of their transfer credits, as the degree format assumes that students have completed their General Education requirement in advance of beginning the degree. In addition to the General Education requirement, B.P.S. students should adhere to the standard transfer Bible requirement as outlined in the front of this catalog. Beyond that, students may earn up to 30 credits through competency-based assessment. Of the 17 competencies on which students may be assessed, six are considered the "big six" leadership competencies core, and two are additional required competencies selected based on students' subject matter concentration.

The following concentrations are available for B.P.S. students:

Aging: INST 3013, SW 3223, NUTR 3633, MG 3503, FS 4403, and PS 3453

Business: MG 3503, MK 3503, AC 2503, EC 3503, and two upper-division business electives

Psychology: PS 1113, 2413, 2423, 3413, 3463, 4423

Restorative Criminal Justice: PO 4253, HI 4213, LJS 3103 and 4403, and two selected from: SO 3023, SW 3333, LJS 3403, HI 4203

Students may also customize a concentration in consultation with the program director.

In addition, non-B.P.S. students may select a minor in Organizational Leadership or a Competency-Based customizable minor. Students pursuing either minor must first complete CORE 1000.

Organizational Leadership: CORE 3053, 3183, 3263, 3293, 3303

Competency-Based Customizable: Five, three-credit CORE modules at the 3000-level as determined in consultation with the program director.

Requirements for Majors

Organizational Leadership Major

B.P.S. degree program

Leadership Core - 18 credits

Subject Matter Concentration - 18 credits

Concentration-Specific Competencies - 6 credits

Capstone - 3 credits

Course Descriptions

Competencies (CORE)

Prerequisite to all CORE classes is the Initial Assessment. All CORE classes except for the Initial Assessment and Capstone Project Assessment may be taken for one to three credits repeatable up to six credits.

CORE 1000 Initial Assessment

This is a non-credit initial assessment of competency for students in the Bachelor of Professional Studies in Organizational Leadership program as majors or minors. Students will visit the Assessment Center to complete their first assessment before enrolling in other CORE courses.

CORE 201V Elementary Active Listening

Effective performers use and interpret non-verbal behaviors, show full attention, and ask basic questions to clarify.

CORE 301V Applied Active Listening

Effective performers encourage speakers with appropriate responses, actively set aside distractors and summarize to ensure understanding.

CORE 401V Advanced Active Listening

Effective performers frequently mentor others in active listening skills, are sought for roles requiring advanced listening skills and are exceptionally adept at interpreting and reinforcing genuine dialogue; personable and approachable.

CORE 202V Elementary Assertiveness

Effective performers are self-assured self-starters, are willing to express opinions or assert ideas, approach new tasks with confidence and accept other opinions.

CORE 302V Applied Assertiveness

Effective performers demonstrate the confidence to direct others, maintain own convictions in actions and decisions, are willing to take an unpopular stand or question group consensus, can express forceful opinions without alienating others, encourage others to express their opinions and ideas and help build confidence among team members.

CORE 402V Advanced Assertiveness

Effective performers have confidence and conviction based on experience and expertise, champion opinions and programs, are comfortable with challenge, are not afraid to take an unpopular stand and readily take risks.

CORE 204V Elementary Change Mastery

Effective performers are adaptable, handle organizational change smoothly, personally model required change and are positive and optimistic about change.

CORE 304V Applied Change Mastery

Effective performers are seen by the team as change agents, understand the leadership responsibility in publicly supporting needed change, skillfully manage the human side of functional change and employ basic change techniques.

CORE 404V Advanced Change Mastery

Effective performers are considered valuable resources during organizational transitions, consistently test the temperature of the team, recognize that change is often positive, proactively present opportunities for change and like to reshuffle the deck.

CORE 205V Elementary Communicativeness

Effective performers are proactive in sharing important information, are easily accessible, support free flow of information and escalate needed information promptly up the chain of command.

CORE 305V Applied Communicativeness

Effective performers create formal and informal venues for the team to share information, regularly solicit information from peers and external sources, actively include others in projects and decisions, use a variety of forums for sharing information and schedule regular meeting for frequent and timely communication.

CORE 405V Advanced Communicativeness

Effective performers consistently and effectively communicate with a wide spectrum of people at all levels, implement sustainable communication procedures, find innovative ways to share knowledge and proactively share best practices with others.

CORE 206V Elementary Composure

Effective performers are able to remain composed during normal stress and ambiguity, react to change with appropriate emotions, do not reinforce inappropriate emotions and remain effective in new and unusual circumstances.

CORE 306V Applied Composure

Effective performers understand the need to demonstrate appropriate emotions in positions of responsibility, are reliable, calm, cool and collected, demonstrate ability and comfort in adapting to change and do not appear distressed when challenged.

CORE 406V Advanced Composure

Effective performers set the appropriate emotional tone, use emotional detachment appropriately and retain emotional control under stress.

CORE 207V Elementary Conflict Management

Effective performers offer opposing opinions appropriately, seek win-win situations, enter into debate without personal animosity and recognize the value of differing opinions.

CORE 307V Applied Conflict Management

Effective performers exhibit a collaborative approach, offer opposing ideas in a negotiable manner, listen to both sides, are comfortable working with others with conflicting opinions, successfully mediate conflict, promote healthy conflict and provide opportunities for differing opinions to be heard and debated.

CORE 407V Advanced Conflict Management

Effective performers successfully mediate conflict between groups, encourage debate and discussion, model open debate, establish formal opportunities to air differing opinions, are skilled at turning aggressive conflict into healthy debate.

CORE 212V Elementary Drive/Energy

Effective performers are go-getters, consistently show up on time, display a visibly positive attitude and drive enthusiastically toward needed results.

CORE 312V Applied Drive/Energy

Effective performers demonstrate an understanding of the importance of continuously modeling motivation, initiate important programs with passion and enthusiasm, maintain a high level of energy for sustained periods, look for high energy and enthusiasm in others and maintain a team environment that rewards high energy and enthusiasm.

CORE 412V Advanced Drive/Energy

Effective performers set the pace for the functional work ethic of the organization, conduct business at a fast-paced and high-energy level, leverage functional meetings and communications to energize associates, work enthusiastically and productively under stress and establish structure and processes to reward enthusiastic drive.

CORE 215V Elementary Global Skills

Effective performers embrace diversity in people, stay current with relevant international trends, start to build a global mindset in their chosen discipline and make decisions that reflect the global nature of the marketplace.

CORE 315V Applied Global Skills

Effective performers are very portable, have a global perspective, have an international experience, review global content and demonstrate an understanding of globalization in their discipline.

CORE 415V Advanced Global Skills

Effective performers translate global trends into local action, consult global network to shape ideas, consider global implications of domestic current events have a global knowledge base.

CORE 218V Elementary Influence

Effective performers are capable of being persuasive and able to motivate others, communicate clearly and effectively in informal settings, gain respect, are responsive, practice what they preach and are well-prepared when attempting to influence.

CORE 318V Applied Influence

Effective performers are visible and steady team leaders, present positive presence, are respected for technical expertise, communicate decisions and rationale in a respectful way and effectively adjust style to fit team needs.

CORE 418V Advanced Influence

Effective performers communicate an agenda across functions, understand the dynamics of power and responsibilities of leadership and clearly articulate advantages to situations.

CORE 220V Elementary Initiative

Effective performers consistently initiate ideas and actions, offer opinions without prompting, take the initiative when appropriate for their role and ask needed questions to stay on top of the current situation.

CORE 320V Applied Initiative

Effective performers seek challenges beyond their job or assignment descriptions, encourage initiative in others, act without prompting, initiate action and reward and encourage others' initiative.

CORE 420V Advanced Initiative

Effective performers take the initiative even under challenging or new circumstances, consistently look for opportunities to implement new initiatives, act with a high degree of independence and initiate important programs without being prompted.

CORE 224V Elementary Mission Focus

Effective performers know personal mission, vision and values, support that mission and incorporate mission into daily activities.

CORE 324V Applied Mission Focus

Effective performers communicate their mission to others and interpret its application, refer to their mission frequently, support and reinforce their mission and understand that their mission conveys meaning.

CORE 424V Advanced Mission Focus

Effective performers translate their purpose into a functional mission, establish plans and goals that support their mission and integrate their mission into all activities.

CORE 226V Elementary Organizing & Planning

Effective performers prioritize, manage and complete multiple tasks, meet deadlines, complete work on time at or above expected standards, reassess priorities along the way, make good use of time and differentiate key issues from distractions.

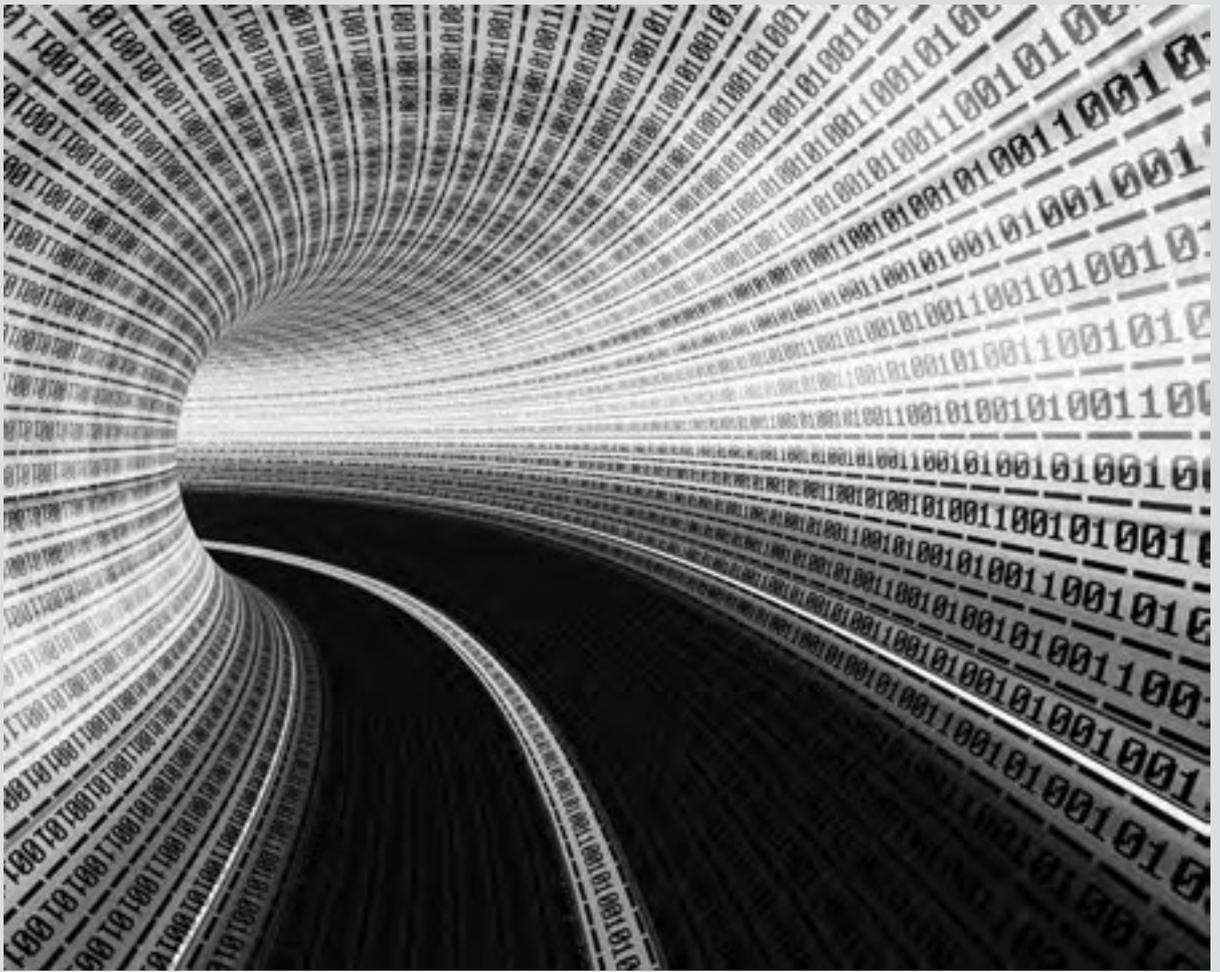
CORE 326V Applied Organizing & Planning

Effective performers establish and communicate team priorities, train and develop others, constantly reassess the situation to ensure correct priorities, maximize time, hold efficient meetings, monitor and prioritize assignments and communicate changing goals or priorities to the team.

CORE 426V Advanced Organizing & Planning

Effective performers consistently anticipate problems, are expert at changing priorities as the situation demands, design supporting functions to maximize efficiency, align functional priorities and manage competing priorities across teams.

- CORE 228V Elementary Presentation Skills**
Effective performers deliver small group talks effectively in familiar settings, prepare in advance for presentations, organize presentations effectively, present talks with minimal difficulty, exhibit adequate presentation skills and use visuals and multi-media adequately.
- CORE 328V Applied Presentation Skills**
Effective performers are good at speaking in front of people and enjoy it, engage the audience, consistently prepare well, incorporate audience feedback and questions, take advantage of presentation training and practice and are skillful with multi-media presentation methods.
- CORE 428V Advanced Presentation Skills**
Effective performers like the challenge of formal speaking, use multiple media creatively, are skilled at fielding questions and often give presentations for large audiences.
- CORE 229V Elementary Problem Solving & Decision Making**
Effective performers use appropriate decision-making techniques, escalate problems to appropriate authority as needed, are objective, willingly collaborate to help solve problems, willingly provide useful input, ask questions and identify key decisions.
- CORE 329V Applied Problem Solving & Decision Making**
Effective performers analyze and anticipate unintended consequences to make decisions, form and lead informal problem-solving teams, actively solicit opinions and input from others, coach team in creative problem-solving, step back from an issue to see the big picture and surface and solve problems in a timely manner.
- CORE 429V Advanced Problem Solving & Decision Making**
Effective performers are recognized for cross-organization analytical skills, mentor and empower others, proactively consider cross-team impacts, consider outcomes and facilitate functional decision-making sessions.
- CORE 230V Elementary Relationship Building**
Effective performers genuinely enjoy people, show an understanding of the importance of good relationships, make the time to maintain existing relationships and develop good working relationships with others on the team.
- CORE 330V Applied Relationship Building**
Effective performers value relationship and work to maintain them, work effectively across organizations, truly value people, expand network beyond immediate area and recognize opportunities in the network to achieve objectives.
- CORE 430V Advanced Relationship Building**
Effective performers establish and maintain a broad network of relationships, effectively utilize a network of relationships, help others improve their relationship building skills and mentor and coach others.
- CORE 231V Elementary Results Orientation**
Effective performers want to achieve outcomes and reach goals, work at an appropriate pace and urgency, show obvious pride in accomplishment, recognize the importance of measurement and maintain quality, values and integrity.
- CORE 331V Applied Results Orientation**
Effective performers set an aggressive schedule for delivery of action items, apply an appropriate sense of urgency and priority, tenaciously stick with a project until the goal is reached, enjoy healthy competition, translate an organization's goals into team goals, provide frequent feedback to team members, delegate, communicate a sense of urgency to the team, accept responsibility and listen and deliver on commitments.
- CORE 431V Advanced Results Orientation**
Effective performers translate organizational growth goals into functional goals, communicate growth goals across teams, attain goals, deliver results at a higher level than expected, are assigned to high-profile projects and sponsor growth initiatives.
- CORE 238V Elementary Team Player**
Effective performers are able to articulate team goals and standards, readily collaborate with others, are always willing to listen to others' points of view, are committed participants on the team and are willing to compromise or delay own goals for the achievement of team goals.
- CORE 338V Applied Team Player**
Effective performers model team player behaviors, consistently recognize and support team goals over individual goals, visibly support team activities, provide enthusiasm and creative energy and ideas to the team, recognize and praise team members' contributions and readily engage new team members.
- CORE 438V Advanced Team Player**
Effective performers are willing and able senior collaborators, readily yield individual goals to meet organizational goals and implement initiatives that promote teamwork.
- CORE 4993 Capstone Project Assessment**
This serves as the culminating course for Organizational Leadership students, allowing them to synthesize the competency core, concentration and competency electives into a meaningful final paper or project that demonstrates their competency and applies their learning.



School of Computing and Informatics

School of Computing and Informatics

Fortune S. Mhlanga, Professor and School Director

Steve G. Nordstrom, Assistant Professor and

Director of Undergraduate Programs

Alfred L. Austelle, Associate Professor

Eddy Borera, Assistant Professor

Jeff Crawford, Associate Professor

Bill Fredenberger, Professor

Kenneth R. Mayer, Jr., Instructor

Robert C. Nix, Assistant Professor

Michelle Putnam, Instructor

Arisoa Randrianasolo, Assistant Professor

Frederick Scholl, Visiting Professor

Christopher Simmons, Assistant Professor

Turn your passion for computing and technology into a great future! The mission of the School of Computing and Informatics is to advance scholarship in key domains of computing and informatics in accordance with the principles of Lipscomb University and to engage in activities that improve the welfare of society and enhance the reputation of Lipscomb University. The school offers innovative and uniquely multi-disciplinary programs that prepare graduates for promising careers in systems engineering, science, management, development and security. The SCI prepares students for a future in a market where there are dozens of careers to choose from and graduates receive among the highest salaries. The school is intent on bringing to its students collaborative partnerships with industry, business, government, schools and nonprofit organizations that provide invaluable, real-world learning experiences. This is an exciting time to be in the SCI. Discover how we can prepare you to build the next generation of computing and technology tools, and to be among the architects that actually lead the future.

Distinctives of the School of Computing and Informatics

The SCI has so much to offer:

- *Flexibility of degree programs to support a variety of career options:* One of the greatest strengths of the SCI lies in its interesting variety of courses. In the first place, students may choose from one of seven degree programs. Within each degree program, students choose a concentration area from a variety of options, including computer networking, computer systems, computer theory, database security, game development, information technology entrepreneurship, mobile computing, network security and system administration.
- *Internships and part-time employment:* Regardless of the degree program students are required to do an internship, for at least one semester, with a company in the industry. The SCI also assists its students seeking appropriate part-time employment with industry around Nashville.
- *Undergraduate research opportunities:* The SCI offers students “the best of both worlds”—research and attentive teaching. The school accords students, including incoming freshmen and transfers, with the opportunity to participate in paid undergraduate research on a competitive basis. This includes summer research and the rare opportunity for undergraduate students to attend and present their work at student conferences.
- *Teaching assistantship opportunities:* The SCI offers paid teaching assistantships to its junior and senior students on a competitive basis.
- *Beyond the classroom:* The SCI offers numerous opportunities to be involved with activities, outside of the classroom setting, to further enhance students’ educational experiences. Faculty members in the school serve as advisers for student organizations such as ACM (Association for Computer Machinery) mainly for computer science students, AITP (Association of Information Technology Professionals) mainly for information technology applications and Web application development students, ISSA (Information Systems Security Association) mainly for information security students, and UPE (Upsilon Pi Epsilon) the international honor society for all students in the computing and informatics disciplines.
- *Study abroad:* Many students take advantage of the numerous study abroad options offered by Lipscomb University. Since we strongly believe that studying abroad can be an enriching, if not life-changing experience, SCI works with students to integrate courses taken abroad into their program of study.
- *Eventual opportunity to shine for the Lord:* Finally, the SCI allows Lipscomb to more fully achieve its mission of educating students for Christian service throughout the world. It is difficult to think of any discipline that opens more doors, has the potential of touching more people, or facilitates more communication and interaction among individuals than computing and informatics. From the boardroom to the assembly line, to the game room or to the mission field, individuals with technology skills are in high demand, are constantly sought out, and have unique opportunities to work, serve, speak and shine for the Lord in ways that others simply cannot.

Career Opportunities

- Application programmers
- Business continuity managers
- Database administrators
- Information technology administrators
- Information technology entrepreneurs
- Internet consultants
- Mobile and game developers
- Network analysts
- Operations managers
- RFID systems engineers
- Software engineers
- Start-up company partners
- Systems analysts and designers
- Technological research scientists
- Telecommunication analysis
- Web application developers
- Web server administrators
- Website administrators
- Website designers

Computer Science

The computer science major and minor provide the opportunity to explore the theoretical and scientific aspects of computing. The program provides preparation both for employment and for graduate programs in computing.

Computer science is mathematically rigorous and spans the range from theory through programming to cutting-edge development of computing solutions. The computer science major, or degree program, is broad, rigorous, and structured in a way that supports in-depth and systematic study of algorithmic processes—their theory, analysis, design, efficiency, implementation and application. It trains students to think creatively and logically to solve large and complex problems and to communicate with clarity and precision. It sets the stage for graduate study or immediate employment in a wide variety of careers in scientific research, industry, business and government and is an attractive major for the incoming freshman and also for the continuing student who is considering a new field of study. It is the ideal major for the student who is passionate about developing the ability to:

- find elegant solutions to problems and puzzles;
- use mathematical analysis and logical rigor to evaluate such solutions;
- model complex problems through the use of abstractions, attention to details and hidden assumptions;
- recognize variants of the same problem in different settings;
- retarget known efficient solutions to problems in new settings;
- adapt to new technologies and new ideas; and
- devise new and better ways of using computers to address particular challenges.

The computer science minor introduces the concepts of data organization and software construction and gives the student a basis to continue further study. The minor is a good partner for any of the majors offered in the Raymond B. Jones College of Engineering as well as several majors in the College of Arts and Sciences.

Informatics and Analytics

The B.S. in informatics and analytics degree program focuses on the relationship between information, technology, and people. The program integrates courses in logical reasoning, computer programming, big data, data analytics, human-computer interaction and other skills that help students to put technology to better use. It has a mandatory internship requirement and students team up with classmates on capstone senior projects that showcase their skills to potential employers. Graduates from the program will be able to apply their tech knowledge to areas of interest—such as biology, business, environmental management, health care, telecommunications, sustainable practice and Web development—to create new uses for technology and the way people interact with it. They are adept at designing, refining and building information systems to extract knowledge from data. They are attuned to the needs that drive people to seek information. And, they understand the increasingly complex social and organizational environments in which people seek to fill their information needs—in theoretical, virtual and physical spaces. They are ambassadors for the transformative power of data and informatics when applied ethically and effectively.

Information Security

The field of information security has grown and evolved significantly in recent years. It is expected that in the U.S. alone, thousands of professionals in the information security field will be added to the workforce. Information security professionals are concerned with the confidentiality, integrity and availability of data regardless of the form the data may take: electronic, print or other forms. Governments, military, corporations, financial institutions, hospitals and private businesses amass a great deal of confidential information about their employees, customers, products, research and financial status. Most of this information is collected, processed and stored on electronic computers, and transmitted across networks to other computers. Protecting confidential information is a business requirement, and in many cases, also an ethical and legal requirement. The information security major, or degree program, offers a deep grounding covering the breadth of information security from theoretical frameworks through models to policies and ethical practices. It focuses on security challenges, threats and requirements for operating systems, computer architectures, networking protocols and organizations' data and information. It is the ideal major for the student who is passionate about developing the ability to:

- apply the technologies and procedures professionals use to secure business systems;

- identify the information security risks and create effective strategies to stop them;
- discover how information security is essential to organizational success;
- possess the knowledge to analyze the role of security within an organization as well as educate corporate employees about their security responsibilities;
- analyze the professional, legal and ethical impact of information security on individuals, business organizations and society;
- apply industry standard techniques to secure large-scale networks; and
- gain the competencies necessary to plan, customize, and manage large-scale secure network and operating system configuration for optimum business applications and/or plans.

The minor in information security combines both theoretical concepts and technical skills to prepare students for a career in information security, including ethical hacking, forensics, networking and security management.

Information Technology

Information technology (IT) is the study, design, creation, utilization, support and management of computer-based information systems, especially software applications and computer hardware. IT is not limited solely to computers though. With technologies quickly developing in the fields of mobile devices, the field of IT is quickly moving from compartmentalized computer-focused areas to other forms of mobile and distributed technology. The IT major develops broad, integrated knowledge spanning the range from telecommunications and computer networking through computer-based information systems to management of IT applications and projects. It is the ideal major for the student who is passionate about developing the ability to:

- evaluate current and emerging computing and information technologies;
- apply, configure and manage computing and information technologies;
- assess the impact of computing and information technologies on individuals, organizations and society;
- gain the business knowledge and skills needed to be successful in a competitive and challenging global information-technology driven economy;
- complement integrated IT knowledge with a strong understanding of key managerial and organizational concepts; and
- develop skill sets that are aligned with industry needs and problem-solving of real-world computing and information technology challenges.

The information technology minor is designed to provide students with a general knowledge of the requirements of commercial computing. It can be very helpful to business students who expect to be involved in corporate computing issues. This program matches very well with any of the majors offered by the College of Business.

Information Technology Management

The information technology management (ITM) major prepares students for various careers in the area of business information systems. The curriculum includes a strong business foundation coupled with information technology applications and business systems design and implementation. Graduates with an understanding of both business and technology are in high demand. According to the Nashville Technology Council, the demand for information technology professionals in Nashville has recently increased 120 percent with almost 1,000 unfilled positions in 2012.

Software Engineering

The B.S. in Software Engineering degree program has been created in response to the growing importance of software to the national infrastructure and the rapid rise in demand for professional software engineers. Software engineering is a top-rated profession. It was named one of the best jobs of 2013 by CareerCast.com, based on work environment, physical demands, outlook, income and stress. The hiring outlook for software engineers is favorable, thanks largely to new, exciting technology like smart phones, tablet applications and cloud (online-hosted) software. Likewise, the U.S. Bureau of Labor Statistics projects that job opportunities in the field of software engineering will continue to expand through 2018—and a bachelor's degree will be a prerequisite for many of these positions.

The program is a multidisciplinary university degree which draws on the strengths of existing Lipscomb University programs in computer science, information technology and mathematics. It provides a curriculum that encompasses behavioral and technical aspects of software engineering, focusing on the most advanced practices, including the equally critical human factor in software development, testing and validation for producing high quality, sophisticated and dependable software products. The program is designed specifically for students interested in a range of application domains, including game development, database systems and security, information technology entrepreneurship, mobile computing, programming theory and applications, and Web application development.

The minor in software engineering combines a core programming sequence with a selection of software engineering courses to prepare students for a career in which software development skills and software project planning and execution may be required.

Web Application Development

Web development is a broad term for the work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network). This can include Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development.

However, among Web professionals, “Web development” usually refers to the main non-design aspects of building websites: writing markup and coding. Web development can range from developing the simplest static single page of plain text to the most complex Web-based Internet applications, electronic businesses or social network services. The Web application development major, or degree program, integrates tools and technology needed to understand the language of Web design and development, and how to take that knowledge into a professional career creating a variety of interactive Web content. It is the ideal major for the student who is passionate about developing the ability to:

- understand technology and how people interact with it;
- design elegant Web-based solutions, engage users while exploring the science of efficient animated websites, Internet programming and utilizing multimedia interactive structure, development and emerging philosophies;
- learn about the creation of effective and efficient animated websites, Internet programming and utilizing multimedia elements for special effects;
- begin entry-level work in areas like website design, online animation, Web interface design and Web programming;
- gain skills in website creation, information architecture, use of graphics, navigation and multimedia;
- join the Internet explosion.

The Web design minor is designed to give students a general understanding of website development and can be very useful to business, art and education majors who expect to be involved in Web development in their careers.

155-hour Five-Year Accelerated Master’s Degree Programs

Undergraduate computing students in certain programs may optionally complete a combined bachelor’s/master’s degree program in five years. This option is available for each of the School of Computing and Informatics undergraduate programs in which a corresponding master’s degree is also offered: Information Security, Information Technology Management, and Software Engineering. Students must complete 119 undergraduate hours at Lipscomb and the 36 hours required for the master’s degree at Lipscomb, for a total of 155 hours, in order to receive both degrees. Following is a summary of the program requirements and other details.

First, the student enrolls at Lipscomb and pursues a major toward a bachelor’s degree and begins working toward completion of their degree. Then, a series of actions are taken to both declare and then complete the 155-hour combined master’s program.

Fall semester, junior year:

- The student declares his/her intention to pursue the 155-hour program.
- The student requests an advising meeting to update his/her degree plan to ensure that the required program change (see below) can be accommodated and scheduled.

Spring semester, junior year:

- The student takes the GRE and has the scores sent to Lipscomb.
- The student requests at least two recommendations from Lipscomb faculty, which are forwarded to the director of the graduate programs for the School of Computing and Informatics.
- The student provides all other information as required for application to the graduate program at Lipscomb.

Senior year (provided the student is admitted to the master’s program):

- Lipscomb waives the requirements of 12 hours (courses waived are specific to the program) in its bachelor’s degree program.
- The student enrolls in a minimum of four three-hour graduate courses (5000-level or above; maximum of two per semester; prerequisites apply).

The student is awarded a bachelor’s degree provided that the student completes at least 119 hours of undergraduate work (including any undergraduate transfer courses) and satisfies all other degree requirements plus a minimum of 12 hours of graduate work. The 12 hours of graduate work taken during the senior year count towards the completion of the master’s degree. Upon completion of the remaining graduate course work, the student receives the master’s degree.

Grades received in the four graduate courses taken during the senior year will not be used in computing the student’s final GPA for the bachelor’s but will be used to compute the GPA for the master’s degree.

Introductory Course for Engineering, Mathematics, & Science Majors

Computer Applications - Math/Science (Computer Science 1041) surveys computing tools and techniques that are useful for scientific studies and is primarily designed for students with majors or minors in the Raymond B. Jones College of Engineering, mathematics and the sciences.

Requirements for Majors

Computer Science Major

B.S. degree program

Total hours required— 134-136

General education hours required— 38 hours

Specific courses required—

Bible 4213

Economics 2503

Mathematics and physical science requirements satisfied by the major

Required courses for the major area— 83 hours

Computer Science 1122, 1213, 1233, 2233, 2243, 2252, 2323, 3433, 3523, 3623, 3713, 4053, 4223, 4413, 4453

Computing and Informatics 395V*

Information Security 3113

Information Technology 2223, 3313

Mathematics 1314, 2103, 2314, 2903, 3123, 3213

Physics 2414 (with lab), 2424 (with lab)

Software Engineering 3223

Concentration courses (choose one concentration area)— 9 hrs

Computer Networking:

IT 3323, IT 4323, SEC 3323

Computer Systems:

CS 3333, EECE 3813, EECE 4254

Computer Theory:

CS 4423, CS 4433, CS 4443

Database Security:

SEC 3313, SEC 3323, SEC 4313

Database Systems and Security:

CS 4443, SEC 3323, SEC 4313

Game Development:

CS 3253, CS 3263, CS 3273

Mobile Development:

CS 3243, CS 3333, CS 4013

Network Security:

IT 3323, SEC 3323, SEC 4323

Software Engineering:

SENG 4113, SENG 4123, SENG 4323

Note: A pure mathematics minor is automatically satisfied by the computer science major.

**CCI 395V has variable credit (1-3 hours)*

Informatics and Analytics Major

B.S. degree program

Total hours required— 122-134

General education hours required— 38 hours

Specific courses required—

Bible 4213

Economics 2503

Management 3503

Mathematics requirement satisfied by major

Required courses for major area — 88-90 hours

Entrepreneurship 2503

Computing and Informatics 395V*, 4613

Computer Science 1213, 1233, 2243

Informatics and Analytics 1123, 2063, 3123, 3213, 3223, 4113, 4223

Information Security 3113

Information Technology 1213, 2223, 2233, 3313, 3413, 3423

Marketing 3503, 3573

Mathematics 1113, 2053, 2183

Operations and Supply Chain Management 3503

Concentration courses (choose one concentration area) – 9 hours

Bioinformatics:

BY 1133, BY 2113, BY 3113

Business Informatics:

BA 3503, MK 4563, MK 3403

Environmental Management Informatics:

ESS 4123, ESS 4213, ESS 4223

Health Care Informatics:

INF 4003, INF 4013, INF 4103

IT Entrepreneurship:

ENT 3543, MK 3553, ENT 4453

Sustainability Performance Informatics:

ESS 2013, ESS 2123, ESS 4223

Web Development:

IT 3223, IT 3233, MK 3403

**CCI 395V has variable credit (1-3 hours)*

Information Security Major

B.S. degree program

Total hours required— 130-132

General education requirement— 44 hours

Specific courses required—

Bible 4213

Economics 2503

Mathematics requirement satisfied by major

Required courses for the major area— 76-78 hours

Accounting 2503

Entrepreneurship 2503

Computer Science 1122, 1213, 1233, 2233, 2243, 2323, 3523

Computing and Informatics 395V*, 4613

Information Security 3113, 3313, 3323, 3333, 4053, 4313, 4323

Information Technology 2223, 3313, 3323

Marketing 3503, 3573

Mathematics 1314, 2103, 2314, 3123

Concentration courses (choose one concentration area)- 9 hrs

Computer Systems:

CS 3333, EECE 3813, EECE 4254

Game Development:

CS 3253, CS 3263, CS 3273

Information Technology Entrepreneurship:

ENT 3543, MK 3553, ENT 4453

Mobile Computing:

CS 3243, CS 3333, CS 4013

System Administration:

IT 3333, IT 3343, and SEC 3333 or BA 3703

Web Application Development:

IT 3223, IT 3233, and IT 2223 or MK 3403

Note: A general business minor is automatically satisfied by the information security major.

**CCI 395V has variable credit (1-3 hours)*

Information Technology Major

B.S. degree program

Total hours required— 126-128

General education requirement— 41 hours

Specific courses required—

Bible 4213

Economics 2503

Mathematics requirement satisfied by major

Required courses for the major area— 73-75 hours

Accounting 2503, 2513

Entrepreneurship 2503

Computer Science 1213, 1233, 2233, 2243

Computing and Informatics 395V*, 4613

Information Security 3113

Information Technology 1123, 2043, 2223, 3313, 3323,
3413, 3423, 4323, 4423

Management 3503

Marketing 3503, 3573

Mathematics 1113, 2053, 2103, 2183

Concentration courses (choose one concentration area)- 9 hrs

Game Development:

CS 3253, CS 3263, CS 3273

Information Technology Entrepreneurship:

ENT 3543, MK 3553, ENT 4453

Information Security:

SEC 3313, IT 3343, SEC 3333

Mobile Computing:

CS 3243, CS 3333, CS 4013

System Administration:

IT 3333, IT 3343, and SEC 3333 or BA 3703

Web Application Development:

IT 3223, IT 3233, and IT 2223 or ITM 3013

Note: A general business minor is automatically satisfied by the information technology major.

**CCI 395V has variable credit (1-3 hours)*

Information Technology Management Major

B.S. degree program

Total hours required— 129-131

General education requirement— 38 hours

Specific courses required—

Bible 4213

Economics 2503

Mathematics requirement satisfied by major

Required courses for the major area— 79-81 hours

Accounting 2503

Business Administration 3503

Computing & Informatics 395V*, 4613

Computer Science 1213, 1233, 2243

Entrepreneurship 2503

Informatics and Analytics 3123, 3133, 3223

Information Security 3113

Information Technology 1123, 1213, 2043, 2223, 3313,
3413, 3423

Information Technology Management 4003, 4013, 4023

Marketing 3503

Mathematics 1113, 2053, 2183

Operations and Supply Chain Management 3503

Concentration courses (choose one concentration area)— 9 hrs

Business Informatics:

BA 3503, MK 4563, MK 3403

Health Care Informatics:

INF 4003, INF 4013, INF 4103

Information Technology Entrepreneurship:

ENT 3543, MK 3553, ENT 4453

Leadership & Organizational Behavior:

MG 4203, MG 4403, MG 4453

Sustainability Performance Informatics:

ESS 2013, ESS 2123, ESS 4223

Web Development:

IT 3223, IT 3233, MK 3403

Note: A general business minor is automatically satisfied by the information technology major.

**CCI 395V has variable credit (1-3 hours)*

Software Engineering Major

B.S. degree program

Total hours required— 127-130

General education requirement— 38 hours

Specific courses required—

Bible 4213

Economics 2503

Management 3503

Required courses for the major area— 79-81 hours

Accounting 2503

Computing & Informatics 395V*, 4613

Computer Science 1122, 1213, 1233, 2233, 2243, 2252,
2323, 3523, 3623

Information Security 3113

Information Technology 2223, 2233, 3313

Mathematics 1314, 2103, 2183, 2903, 3053, 3213

Software Engineering 3223, 4023, 4113, 4123, 4323

Concentration courses (choose one concentration area)— 9 hrs

Game Development:

CS 3253, CS 3263, CS 3273

Database Systems and Security:

CS 4443, SEC 3323, SEC 4313

Information Technology Entrepreneurship:

ENT 3543, MK 3553, ENT 4453

Mobile Computing:

CS 3243, CS 3333, CS 4013

Programming Theory and Applications:

CS 3713, CS 4213, CS 4223

Web Application Development:

IT 3223, IT 3233, MK 3403

Electives— 2-3 hrs

Note: A mathematics minor is automatically satisfied by the software engineering major.

**CCI 395V has variable credit (1-3 hours)*

Web Application Development Major

B.S. degree program

Total hours required— 126-129

General education requirement— 44 hours

Specific courses required—

Bible 4213

Economics 2503

Mathematics requirement satisfied by major

Required courses for the major area— 73-75 hours

- Communication 2144
- Computer Science 1213, 1233, 2243
- Computing and Informatics 395V*, 4613
- Entrepreneurship 2503
- Information Security 3113
- Information Technology 1123, 1213, 2043, 2223, 2233, 3223, 3313, 3233, 3413, 3423, 4053, 4423
- Marketing 3403, 3503, 3573
- Mathematics 1113, 2183

Concentration courses (choose one concentration area)— 9 hrs

- Game Development:
CS 3253, CS 3263, CS 3273

Information Technology Entrepreneurship:

- ENT 3543, MK 3553, ENT 4453

Information Security:

- SEC 3313, IT 3343, SEC 3333

Mobile Computing:

- CS 3243, CS 3333, CS 4013

System Administration:

- IT 3333, IT 3343, and SEC 3333 or BA 3703

Note: A general business minor is automatically satisfied by the information technology major.

**CCI 395V has variable credit (1-3 hours)*

Requirements for Minors

Computer Science Minor

Total hours required— 21

Specific courses required—

- Computer Science 1213, 1233, 2233, 2323, 4223

Six hours of electives chosen from

- Computer Science 3623, 3523, 4413
- Software Engineering 3223

Informatics and Analytics Minor

Total hours required— 21

Specific courses required—

- Computer Science 1213, 1233, 4223
- Informatics and Analytics 3213, 3223, 4223

Information Security Minor

Total hours required— 21

Specific courses required —

- Computer Science 1213, 1233
- Information Security 3113, 3313
- Information Technology 3313

Six hours of electives chosen from

- Information Security 3323, 3333, 4313, 4323

Information Technology Minor

Total hours required— 21

Specific courses required —

- Computer Science 1213, 1233, 2233, 2243
- Information Technology 2223, 3313, and 4423 or ITM 4003

Software Engineering Minor

Total hours required— 21

Specific courses required —

- Computer Science 1213, 1233, 2233, 2243
- Software Engineering 3223 4123, 4323

Web Development Minor

Total hours required— 20

Specific courses required—

- Computer Science 1213, 1233, 2243
- Information Technology 1213, 2223, 2233, 3223

Online Web Design/ Development Certificates

The School of Computing and Informatics offers three online certificates of undergraduate study in Web design and development. The target audience are individuals who already have an undergraduate degree but may wish to build skills in Web design and Web application development and to attain a certification. The three certificate programs are defined by their courses of study, and comprise specialties in front-end Web design, back-end Web development, or both front-end and back-end specialties.

Design Certificate (Front-End)

Total hours required— 18

Specific courses required—

- IT 1213 Graphic Design Studio
- IT 1123 Future of Computing
- CS 1213 Introduction to Computer Programming
- IT 2223 Web Development I
- IT 3223 Web Development II
- IT 2233 User Interface Design

Development Certificate (Back-End)

Total hours required— 21

Specific courses required—

- IT 1123 Future of Computing
- CS 1213 Introduction to Computer Programming
- IT 2223 Web Development I
- CS 1233 Object-Oriented Design/Programming
- IT 2233 User Interface Design
- CS 2243 Database Management
- IT 3233 Web Server Technologies

Design/Development Certificate (Front/Back-End)

Total hours required— 27

Specific courses required—

- IT 1213 Graphic Design Studio
- IT 1123 Future of Computing
- CS 1213 Introduction to Computer Programming
- IT 2223 Web Development I
- IT 3223 Web Development II
- IT 2233 User Interface Design
- CS 1233 Object-Oriented Design/Programming
- CS 2243 Database Management
- IT 3233 Web Server Technologies

Course Descriptions

Computer Science (CS)

- 1041 Computer Applications - Math/Science (1) F, SP**
Use of computer software for mathematical and scientific applications. Problem solving with application software including graphical representation of solutions and data, equation editing, symbolic mathematics, statistical software, scientific internet resources, images and animation. Laboratory, 2 hours.
- 1122 Introduction to Computer Science (2) F, SP**
Survey of topics in computer science. Appreciating computer science as a discipline, with light introductions to object-oriented paradigms. Topics include introduction to and appreciation of problem solving, programming languages and their translators, software engineering, computer architecture, operating systems, networks, algorithms, social and ethical issues, and artificial intelligence.
- 1213 Introduction to Computer Programming (3) F, SP**
Problem analysis and the development of algorithms and computer programs in a modern high-level language. Introduces the use of a high-level object-oriented programming language as a problem-solving tool, including basic data structures and algorithms, object-oriented programming techniques and software documentation. Prerequisites: MA 1030 or higher.
- 1233 Object-Oriented System Design and Programming (3) F, SP**
Introduces more advanced elements of object-oriented programming, including dynamic data structures, recursion, searching and sorting, and advanced object-oriented techniques. Prerequisite: Computer Science 1213 with a grade of "C" or higher.
- 2233 Data Structures and Algorithms (3) F, SP**
Implementation and application of fundamental data structures and computing algorithms used in computer science, including searching and sorting; elementary abstract data types including linked lists, stacks, queues, trees and graphs. Particular emphasis is given to the use of object-oriented design and data abstraction in the creation and application of these data structures. Some elementary algorithm analysis is also covered. Prerequisites: Computer Science 1233 and Math 2103 with grades of "C" or higher.
- 2243 Database Management Systems (3) SP**
Introduction to database concepts and the relational database model. Topics include SQL, normalization, design methodology, DBMS functions, database administration, and other database management approaches such as client/server databases, object oriented databases, and data warehouses. Strong emphasis on database system design and application development. Prerequisite: Computer Science 1233 with a grade of "C" or higher.
- 2252 Competition Programming (2) SP**
Introduction to an interesting variety of subjects in programming, algorithms, and discrete mathematics through puzzles and problems which have appeared in the International ACM Programming Contest and similar venues. Skills required for programming contests, which

include evaluation of problem difficulty, solving problems in teams, and working under time pressure. Implementation of algorithms will be done in an object-oriented programming language such as C++ or Java. It is expected that the best students from this course will represent Lipscomb at the regional ACM Programming Competition and possibly at the international ACM Competition. Prerequisite: Computer Science 2233 with a grade of "C" or higher.

- 2323 Computer Organization (3) F**
Introduction to computer organization with emphasis on the lower level abstraction of a computer system including digital logic, instruction set and assembly language programming. Topics include data representation, logic gates, simplification of logical expressions, design and analysis of simple combinational circuit such as decoders and multiplexers, flip-flops and registers, design, and analysis of simply synchronous sequential circuit, random-access and read-only memories, instruction set architecture and programming in assembly language. Prerequisites: Computer Science 1233 and Math 2103, with grades of "C" or higher.
- 3233 Introduction to GUI Programming and Graphics (3) F**
Design and implementation of object-oriented graphical user interfaces (GUI) and two-dimensional computer graphics systems. Implementation methodologies including callbacks, handlers, event listeners, design patterns, layout managers, and architectural models. Mathematical foundations of computer graphics applied to fundamental algorithms for clipping, scan conversion, affine and convex linear transformations, projections, viewing, structuring, and modeling. Prerequisites: Computer Science 2233 and Math 3213 with grades of "C" or higher.
- 3243 Mobile Device Programming (3) SP**
Introduction to programming for the mobile devices (such as Apple iPhone, iPod Touch, iPad and Android) using Software Development Kits (SDKs). Mobile application development will focus on object-oriented programming appropriate to mobile devices. Insight into current common procedures for getting mobile application work academically published. Prerequisites: Computer Science 1233, 2243 and Information Technology 3313 with grades of "C" or higher.
- 3252 Programming Challenges (2) F**
Development and implementation of advanced algorithms, as well as the skills required for programming competitions. The student will learn to select appropriate algorithms for a given problem, integrate multiple algorithms for solving a complex problem, design new algorithms, and implement them in C++ or Java. Prerequisite: Computer Science 2252 with a grade of "C" or higher.
- 3253 Game Development I (3) SP**
Introduction to the design and implementation of computer games, including real-time graphics, audio and interactive multimedia programming techniques. Prerequisite: Computer Science 2233 with a grade of "C" or higher.
- 3263 Game Development II (3) F**
Advanced game programming techniques, including 3D graphics, 3D audio, game physics and networking for multi-player games. Prerequisite: Computer Science 3253 with a grade of "C" or higher.

- 3273 Collaborative Serious Games Development (3) SP**
Advanced team-based game development on applications of interactive technology for video game domains such as education, health, training, analytics, visualization, simulation and therapy. Prerequisite: Computer Science 3263 with a grade of “C” or higher.
- 3333 Mobile and Distributed Computing Systems (3) F**
Architectures of mobile and distributed computing systems, mobile and distributed operating systems, middleware, SOA and distributed services, network infrastructure for mobile and distributed computing systems. Prerequisites: Computer Science 2233, 2243 and Information Technology 3323 with grades of “C” or higher.
- 3433 Numerical Methods (3) SP**
Offered odd numbered years
Finding roots of equations, error analysis, simultaneous linear equations, numerical integration, least squares approximations, and numerical solutions for ordinary differential equations. Prerequisites: Math 2314 and Computer Science 2233 with grades of “C” or higher.
- 350V Special Topics in Computer Science (1-3)**
Offered on demand
Selected topics from the field of computer science. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director’s approval. Prerequisite: Consent of the instructor.
- 3523 Operating Systems (3) SP**
Introduction to operating system concepts including system organization for uniprocessors and multiprocessors, scheduling algorithms, process management, deadlocks, paging and segmentation, files, and protection, and process coordination and communication. Prerequisites: Computer Science 2233 and 2323 with grades of “C” or higher.
- 3623 Design and Analysis of Algorithms (3) F**
Study of the techniques for designing algorithms and for analyzing the time and space efficiency of algorithms. The algorithm design techniques include divide-and-conquer, greedy algorithms, dynamic programming, randomized algorithms and parallel algorithms. The algorithm analysis includes computational models, best/average/worst case analysis and computational complexity (including lower bounds and NP-completeness). Prerequisites: Computer Science 2233 and Math 2903 with grades of “C” or higher.
- 3713 Comparative Programming Languages (3) SP**
Discussion of the important issues in the specification, design and implementation of programming languages with emphasis on imperative programming. Emphasis is on evaluating alternative ways of providing various symbols, abstractions, definitions, theorems, proofs, programming language features and trade-offs involved. Topics include syntactic specification, data types, and the like, abstraction mechanisms, sequence control, data control, storage management, functional programming and about its capabilities and limitations, universal models introduction to programming verification. Several languages are used to illustrate these programming language concepts. Prerequisite: Computer Science 2233 with a grade of “C” or higher.
- 4013 Future Mobile and Social Computing Systems (3) SP**
Research and development (R&D) or project-based course to build futuristic proof-of-concept online social and mobile computing system prototypes. Prerequisite: Computer Science 3243 with a grade of “C” or higher.
- 4053 Senior Seminar in Computer Science (3) SP**
Required of all computer science majors in their senior year. Assessment of degree to which computer science program outcomes have been achieved; reflection on and synthesis of computer science academic experience; preparation for transition to professional employment or graduate school. Prerequisites: Senior standing and 30 hours of Computer Sciences courses.
- 4223 Compiler Construction (3) F**
Study of the theory and design techniques used in compiler construction, including lexical analysis, parsing, grammars, semantic analysis, code generation and optimization. Each student will implement a subset of a compiler. Prerequisites: Computer Science 2233, 3623 with grades of “C” or higher.
- 4413 Fundamentals of Automata and Formal Language Theory (3) SP**
Introduction to fundamental concepts of automata theory and formal languages including finite automata, regular expressions, formal language theory and pushdown automata. Prerequisite: Computer Science 3713 with a grade of “C” or higher.
- 4423 Computability and Complexity Theory (3) SP**
Rigorous introduction to theoretical foundations of computer science, addressing a number of interrelated topics and formally defining a computer, an algorithm and what is computable. Close reading of important theorems and proofs. Significant use of mathematical lemmas, corollaries, logical reasoning, inductive proofs, are used to introduce how to reason precisely about computation and prove mathematical theorems of computation such as Turing machines, undecidability, and computational complexity. Prerequisites: Computer Science 3623 and 4413 with grades of “C” or higher.
- 4433 Algorithmic Graph Theory (3) F**
The elements of the theory of graphs and directed graphs with motivating examples from communication networks, data structures, etc., shortest paths, depth first search, matching algorithms, parallel algorithms, minimum spanning trees, basic complexity theory, planarity, and other topics. Programming assignments are included. Prerequisite: Computer Science 3623 with a grade of “C” or higher.
- 4443 Database Theory and Applications (3) SP**
Introduction to the theory, methods, and techniques widely used today to design, build, and implement modern database systems. Emphasis is on the relational data model, with topics including relational algebra, SQL, entity-relationship model, normalization, design algorithms, query processing, transaction processing, and object-oriented databases. Prerequisites: Computer Science 2233, 2243 and Math 2903 (or Math 2103) with grades of “C” or higher.

4453 Artificial Intelligence (3) SP

An exploration of concepts, approaches and techniques of artificial intelligence: specification, design, and implementation of selected applications of intelligent software agents and multi-agent systems. Computational models of intelligent behavior, including problem solving, knowledge representation, reasoning, planning, decision making, learning, perception, action, communication and interaction. Reactive, deliberative, rational, adaptive, learning and communicative agents and multi-agent systems. Prerequisites: Computer Science 3623, Math 3123 and 3213 with grades of “C” or higher.

Computing and Informatics (CCI)**1123 Zen and Art of Computing (3)**

A study of modern computing technologies developed by computer, data and information scientists that keep the global digital information age moving forward. Topics include tools and artifacts of the digital citizen, appropriate uses of technology in society, and software to maximize your effectiveness as a student.

395V Internship (1-3) F, SP, SU

Provides the opportunity for a student to gain experience with his/her computing major in a work setting. Credit is awarded according to the scale published by the Career Development Center. Prerequisites: junior standing and the permission of the undergraduate program director. Repeatable up to six hours.

401V Independent Study (1-3) F, SP, SU

Independent study research in a selected topic; title to be approved by the major professor and undergraduate program director; culminating research paper to be kept on file. Prerequisites: advanced standing, ability and the approval of undergraduate program director and faculty advisor. Repeatable for up to six hours. This course may satisfy SALT Tier II requirement.

4613 Senior Project (3) SP

Design and implementation of a suitable information or software system. Projects to be proposed and/or approved by the instructor. Prerequisites: Senior standing and CS 2243 or IT 3233, and 3413 with grades of “C” or higher.

Informatics and Analytics (INF)**1123 Introduction to Informatics and Analytics (3)**

Introduction to latest trends in informatics and analytics, including topics such as Big Data, predictive models, tools and technologies to support large scale analytics, research methods, decision modeling, and case studies. Lecture, 3 hours.

2063 Modern Computing Applications for Informatics and Analytics (3)

Introduction to modern data science applications such as SAS, JMP, Tableau, Enterprise Miner, Hadoop, and other enterprise level applications for data analysis, visualization, collection, and research.

2223 Information Structures (3) SP

Introduction to the concepts and structures used to analyze, store, manage, and present information and navigation. Topics include information analysis and organization methods, XML, and metadata concepts and application. Prerequisite or corequisite.: INF 2213.

3123 Information Ethics and Policy (3) F

Framework for analyzing the ethical, legal, economic, and socio-political issues surrounding information, information technologies, and the information industries. Policy and ethical issues of information access and control including intellectual property, file sharing, free speech, privacy, and national security. Prerequisite: INF 3213 or SEC 3113.

3213 Principles of Informatics and Analytics (3) F

Principles of informatics and analytics including theories, concepts, and principles of information, information seeking, cognitive processing, knowledge representation and restructuring, and their relationship to physical and intellectual access to information. Development of information systems for storage, organization, and retrieval. Prerequisite: Mathematics 1113.

3223 Information Structures (3) SP

Introduction to the concepts and structures used to analyze, store, manage, and present information and navigation. Topics include information analysis and organization methods, XML, and metadata concepts and application. Prerequisite or corequisite: INF 3213.

3323 Principles of Statistical Analysis and Decision Modeling (3)

Introduction to the research process investigating information needs, creation, organization, flow, retrieval and use. Stages include: research definition, questions, objectives, data collection and management, data analysis, and data interpretation. Techniques include: observation, interviews, questionnaires, and transaction-log analysis. Prerequisite: INF 2223 and Math 2183.

350V Special Topics in Informatics and Analytics (1-3) Offered on demand

Selected topics from the field of informatics and analytics. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director’s approval. Prerequisite: Consent of the instructor.

4003 Decision Support Systems (3) SP

This course allows students to explore the history, evolution and current applications of decision support. The course emphasizes the unique challenges of data representation and information retrieval techniques that are foundational to decision support systems. Students will evaluate the value of decision support systems in contrast with the complexities of implementation in the current medical, legal, financial, technological and cultural context. Prerequisite: Admittance to accelerated master’s degree in health care informatics.

4013 Information Systems Management (3) SP

The role of Information Systems within the organization and how they can be used to make operations more efficient, save time and energy, will be discussed. In addition, the methods to use these strategically are evaluated. The use of critical thinking skills to explore methods of using information systems to increase productivity and, if necessary, as the competitive advantage will be a large component of this course. Prerequisite: Admittance to accelerated master’s degree in health care informatics.

4103 Introduction to Health Care Informatics (3) SP
 This course surveys the fundamental concepts and activities of informatics as applied to health care. Topics include computer-based medical records, electronic health record, knowledge-based systems, decision theory and decision support, e-Health, ARRA/ HITECH and Meaningful Use and the personal health record. Students will learn health care informatics history, informatics competencies, concepts, legal and ethical implications and applications within the health care industry. This course will introduce the student to the software development life cycle; human factors issues in health care informatics; critical issues affecting the development and implementation of information and communication systems and technologies, professional practice trends and explore some of the emerging information and communication technology in health care (CPOE, eMAR, barcode medication administration systems, e-Prescribing, etc.). Prerequisite: Admittance to accelerated master's degree in health care informatics.

4133 Research Methods in Informatics and Analytics (3) F
 Introduction to the research process investigating information needs, creation, organization, flow, retrieval and use. Stages include: research definition, questions, objectives, data collection and management, data analysis, and data interpretation. Techniques include: observation, interviews, questionnaires, and transaction-log analysis. Prerequisite: INF 3223 or CS 2243, and Math 2183.

4223 Data Mining and Analysis (3) SP
 Computational techniques for analysis of large, complex datasets, covering fundamental aspects as well as modern data mining and analysis techniques. Prerequisite: INF 3223 and CS 2243.

Information Security (SEC)

3113 Fundamentals of Information Security (3) SP
 An introduction to the security of digital information including: threats; regulations; risk management; attack detection and response; cryptography; forensics; and technical training and certifications. Prerequisites: Information Technology 2223 and Computer Science 1213 with grades of "C" or higher.

3313 Introduction to Policy and Procedures (3) F
 Establishing information security policies and procedures for organizations. Identification of relevant contracts, laws, and regulations constraining organization, and the setting of procedures to be used in day-to-day operations. Prerequisite: Information Security 3113 with a grade of "C" or higher.

3323 Cryptography (3) F
 Security requirements for telecommunication over the Internet and other communication networks, various conventional and public-key encryption protocols, digital encryption standard, RSA and ElGamal cryptographic systems, digital signature algorithm and analysis of its crypto-immunity, and access sharing schemes. Prerequisites: Math 2103 and 3123 with grades of "C" or higher.

3333 Introduction to Business Continuity and Recovery Planning (3) SP
 Maintenance of information and the processes of how to continue in business in the face of data loss, and planning

for the recovery in the event of such loss. Prerequisite: Information Security 3313 with a grade of "C" or higher.

350V Special Topics in Information Security (1-3) Offered on demand
 Selected topics from the field of information security. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director's approval. Prerequisite: Consent of the instructor.

4053 Senior Seminar in Information Security (3) SP
 Required of all information security majors in their senior year. Assessment of degree to which information security program outcomes have been achieved; reflection on, and synthesis of, information security academic experience; preparation for transition to professional employment or graduate school. Prerequisites: Senior standing in information security and 15 hours of SEC courses.

4193 Ten-Day Travel Course in Information Security (3) Optional
 The travel course is designed to give students insight into various organizations' operations and how they handle the several aspects of information security. Students will observe the security of the physical plant, how Human Resources protects data by making informed hiring decisions, how data is secured as well as networks and communications. Note: This course is offered during Wintermester and is offered on demand at additional cost. Prerequisites: Senior standing in information security and 15 hours of SEC courses. Travel, 3 hours.

4313 Database Security (3) F
 Security challenges and threats in database systems and state-of-the-art security technologies, including multi-level security, covert channels, and security measures for relational and object-oriented database systems. In addition to the security issues, the courses addresses issues related to distributed databases and current technologies, such as service oriented architecture, cloud computing, etc. Prerequisites: Computer Science 2243 and Information Security 3113, 3323 with grades of "C" or higher.

4323 Network Security (3) SP
 Advanced knowledge of network security. Topics include design and implementation of some important public key systems: RSA and Elliptic Curve algorithms; concepts of quantum cryptography; quantum computing and cryptography; wireless computing and cryptography; design, implementation and configuration of firewalls in depth; design, implementation and configuration of intrusion detection systems; prevention systems; advanced network security architectures; advanced wireless security; principles and practices; security in trusted-based computing environments; and quantum cryptography. Prerequisite: Information Technology 3323 and Information Security 3323 with grades of "C" or higher.

Information Technology (IT)

1123 Future of Computing (3) F, SP
 Cutting-edge trends in computing. Introduction to programming using a scripting language. Societal and ethical use of computers. Lecture, 3 hours. Computer upgrade fee: \$90.

- 1213 Graphic Design Studio (3) F**
Basics of graphic design using the Adobe Creative Suite of applications. Integration of design fundamentals with core Adobe Creative suite methodologies: Photoshop, Illustrator, InDesign, Dreamweaver and Flash. Lecture, laboratory, 3 hours.
- 2043 Information Technology Applications (3) F, SP**
Emphasis on using the computer as a decision-making tool. Theory and applications of various software packages, including word processing, electronic spreadsheets, databases and presentation software. Prerequisites: None. Lecture/laboratory, 3 hours.
- 2223 Web Application Development I (3) F, SU**
Survey of Web development techniques. Emphasis on developing and maintaining websites with topics including basic Web site design, HTML, XHTML, and CSS coding. Use of content management systems (CMS) and software packages such as Photoshop. Prerequisites: None. This course may satisfy the SALT Tier II requirement.
- 2233 User Interface Design (3) SP**
Provides an introduction to human-computer interface design and evaluation with an emphasis on graphical user interfaces for software products. Covers design principles and theory, web usability and selected basic research in the areas of human factors and human cognition. Prerequisite: IT 2223 with a grade of "C" or higher.
- 3121 Fundamentals of Database Concepts and Data Analytics (1) SU**
Leveling course for graduate students with no prior background in database systems. Model organization data and business rules, logical and physical design of relational databases, data warehousing, data mining, and data administration. Prerequisite: Application to a master's program in the School of Computing and Informatics.
- 3131 Fundamentals of Data Communications and Network Management (1) SU**
Leveling course for graduate students with no prior background in database systems. Concepts and terminology of data communications, network design, client/server architecture, distributed information systems with focus on communications architecture and management. Prerequisite: Application to a master's program in the School of Computing and Informatics.
- 3223 Web Application Development II (3) SP**
Advanced skills in Web application development. Topics include use of HTML5, CSS3, Javascript, jQuery, frameworks, ajax, actionscript, etc with introduction to MVC. Emphasis on using available technologies to produce a variety of website types with appreciable user interfaces. Prerequisite: IT 2233 and CS 1213 with grades of "C" or higher.
- 3233 Web Server Technologies (3) F**
Application design using server technologies to transfer data from websites to and from databases. Topics include: scripting languages such as ASP, PHP, data structuring languages such as XML and other server technologies. Prerequisites: IT 2233, CS 1213, and CS 2243 with grades of "C" or higher.
- 3313 Network Principles (3) F, SP**
Overview of current computer network theory and practice. Hardware requirements, network media and topologies, protocols and access methods, the Open Systems Interconnection (OSI) and internet models. Prerequisites: CS 1213 with a grade of "C" or higher.
- 3323 Wireless Networks and Mobile Systems (3) F**
Introduction to wireless networks and link protocols, mobile networking including support for the Internet Protocol suite, mobile middleware, and mobile applications. Prerequisite: IT 3313 with a grade of "C" or higher.
- 3333 Network Administration (3) F**
Administration of peer-to-peer and client/server networks. Hands-on experience with commercial client and server software. Topics include pre-installation planning, network installation, network software architecture, server configuration, client configuration, profiles and logon scripts, user account management, policies, resource sharing and security, disk management, remote access, backup and recovery, performance monitoring and network optimization. Prerequisite: IT 3313 with a grade of "C" or higher.
- 3343 Database Administration (3) SP**
Database (e.g. Oracle) creation, including table spaces, user accounts, views, indexes, and other objects necessary to support an application. Understanding the internal structures and organization of database systems (e.g. Oracle). Account maintenance, data import and export, system backup, and performance tuning and monitoring. Prerequisite: CS 2243 with a grade of "C" or higher.
- 3413 Systems Analysis and Design (3) F**
Introduction to analysis and design techniques, project management tools, data collection tools and system documentation tools. Communication skills are emphasized. Proper input/output design techniques, database, etc. are included in selection of appropriate implementation. Evaluation of hardware/software options relating to feasibility. Prerequisite: CS 2243 with a grade of "C" or higher.
- 3423 Project Management (3) SP**
Design and implementation of realistic information system projects while working in a team environment. Prerequisite: IT 3413 or SENG 3223 with grades of "C" or higher.
- 350V Special Topics in Information Technology (1-3) Offered on demand**
Selected topics from the field of information technology. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director's approval. Prerequisite: Consent of the instructor.
- 4053 Senior Seminar in Web Development (3) SP**
Required of all web application development majors in their senior year. Assessment of degree to which web application development program outcomes have been achieved; reflection on, and synthesis of, web application development academic experience; ethical- professional-creative expectations for the practicing web developer; preparation for transition to professional practice. Prerequisites: Senior standing in web application development and 30 hours of IT courses.

4323 Modern Telecommunications (3) SP
 Comprehensive overview, including current status and future directions. Topics include review of evolution of telecommunications; voice and data services; basics of signaling, digital transmission, network architecture, and protocols; local area, metropolitan, and wide area networks and narrow band ISDN; asynchronous transfer mode and broadband ISDN; and satellite systems, optical communications, cellular radio, personal communication systems, and multimedia services. Provides examples of real-life networks to illustrate basic concepts and gain further insight. Prerequisite: IT 3323 with a grade of “C” or higher.

4423 Management of Information Technology (3) F
 The role of information technology in organizations and their strategic use for providing competitive advantage through the use of real-world case studies. Use of critical thinking skills to explore methods of using information systems to increase market share in organizational settings. Prerequisites: Junior standing and IT 3413 with a grade of “C” or higher.

Information Technology Management (ITM)

350V Special Topics in IT Management (1-3) Offered on demand
 Selected topics from the field of IT Management. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director’s approval. Prerequisite: Consent of the instructor.

4003 Principles of Technology Management (3) SP
 This course covers the role of technology within the organization and how it can be used to make operations more efficient, save time and energy. In addition, the methods to use technology strategically are evaluated. The use of critical thinking skills to explore methods of using technology to increase productivity and, if necessary, as the competitive advantage will be a large component of this course. Prerequisites: Junior standing and IT 3413 with a grade of “C” or higher.

4013 Telecommunications Network Management (3) F
 In-depth study of telecommunications network management technology systems. Architecture, functions, methods and protocols necessary to design modern telecommunications network management systems. Network management standards such as Telecommunications Management Network (TMN) and Simple Network Management Protocol (SNMP). Basic network management concepts, protocols and methods with real-world examples used to address these. Management aspects of planning and controlling/decision making for telecommunication networks: human resources, financial planning and control, marketing, cost/benefit analysis. Marketing aspects of telecommunications networks. Prerequisite: Junior standing and permission of undergraduate programs director.

4023 Data & Knowledge Management (3) SP
 This course includes a focus on the process of data and knowledge management and associated business intelligence parameters. Data management: modeling, using, securing and sharing organizational data resources. Business intelligence: applications and technologies for

gathering, storing, analyzing and providing access to help enterprise users make better business decisions. Knowledge management: effective deployment of technology, organizational practices and processes to increase an organization’s utilization of its knowledge capital. Prerequisites: Junior standing and IT 3413 with a grade of “C” or higher.

Software Engineering (SENG)

3223 Principles of Software Engineering (3) SP
 Survey of techniques, methods and theories used in the analysis, design, implementation, and testing of software. Prerequisites: Computer Science 2233 and Computer Science 2243 with grades of “C” or higher.

350V Special Topics in Software Engineering (1-3) Offered on demand
 Selected topics from the field of software engineering. The course may be either lecture or laboratory oriented depending upon the topic selected. The study represents an in-depth approach to specific areas of interest to the students. Repeatable for credit with director’s approval. Prerequisite: Consent of the instructor.

4023 Requirements Engineering and Modeling (3) SP
 Perspectives on software engineering processes, in-depth study of requirements engineering and an overview of various modeling techniques applicable to requirements analysis and specification, including UML and formal methods. Prerequisites: SENNG 3223 and junior or senior standing.

4113 Software Architecture and Design (3) F
 The process of constructing software, including the structural views of software components and their characteristics and interrelationships at a high level of abstraction. The course also covers the design principles that govern the purpose, structure, development and evolution of software components. Prerequisites: SENNG 3223 and junior or senior standing.

4123 Software Testing and Verification (3) SP
 Fundamental concepts of software quality assurance and testing, functional testing, GUI-based testing tools, control flow based test adequacy criteria, data flow based test adequacy criteria, white box-based testing tools, software quality and reliability, testing management techniques and support tools, and covers team-oriented project using methods, techniques and practices learned. Prerequisites: SENNG 3223 and junior or senior standing.

4323 Agile Software Development (3) SP
 This course provides an in-depth treatment of Agile Software Development, a highly iterative, customer-focused, team-based, test-driven method for developing software; study of principles and fundamental concepts that drive Agile, borrowing from many of the Agile variations (Scrum, Extreme Programming, etc.); and application of Agile’s dynamic and adaptable principles within the context of an organization. Prerequisites: SENNG 3223 and junior or senior standing.



Institute for Law, Justice and Society

Law, Justice and Society

Randy Spivey, Assistant Professor and Academic Director
Charla Long, Associate Professor

The Institute for Law, Justice and Society offers an undergraduate major and minor academic program which looks at the legal system as a vehicle for bringing about social change. By blending law, justice and society (LJS) course offerings with classes from a variety of academic areas including psychology, sociology, history, political science, business, Bible and communications, students explore how laws impact society. As a result, students wanting to make a difference in the world discover ways they can institute legal change for resulting social change and vice versa.

The academic program's mission is to provide an integrated, multidisciplinary learning in the context of ethics and Judeo-Christian values. This course of study develops practical liberal arts skills and knowledge about the many areas in which the American legal system influences our society.

Distinctives of the Law, Justice and Society Program

When compared to other universities in the United States, Lipscomb's Law, Justice and Society academic program is unique because:

- We are the only program in the nation that incorporates trips to Washington, D.C., and abroad in the course curriculum. While other schools talk about the places we visit and their impact on the legal system, we experience it firsthand.
- We are the only program in the nation to incorporate an "Education for a Cause" project that spans the entire LJS curriculum. We know students can make a difference in the world today.
- We are one of only a handful of programs to require community service. We recognize the importance of learning through serving.
- We are one of the few programs to require an internship. We know that those with experience are the first to secure career placements.
- We are located in a state capital. We take advantage of our location by incorporating field trips to the legislature and providing opportunities for students to interact with state leaders.

The City as our Campus; The World as our Classroom

Classes are scheduled in blocks of time to allow for field trips and observations in the Nashville legal community. Additionally, distinguished lecturers supplement the program's faculty. Students participate in two required trips: Washington, D.C., and an international destination. On these trips, students will visit the legislature, the highest courts, prominent law firms, social justice NGOs and a variety of other law-related organizations.

Education for a Cause

Each student in the Law, Justice and Society program selects a social cause of personal significance and works throughout their academic career to improve or eliminate the cause and its effects on society. For example, a student may choose to significantly reduce the homeless population in the United States. In the course, Influencing Change through Civic Engagement, the student would volunteer for a homeless shelter and become familiar with the underlying problems at the core of this issue. Then in the Internship course, the student would work for an organization related to homelessness. Using the information learned from these experiences, the student would create a legal solution to their social issue in the Senior Research Project course.

A Program of SALT Scholars

In Acts 20:35 Paul writes, "It is more blessed to give than to receive." The LJS program values service and believes some of life's greatest lessons are achieved through giving to others. Therefore, the Law, Justice and Society curriculum has been designed to allow its students to achieve the notable SALT Scholar designation at graduation. T.S. Eliot once wrote, "We had the experience, but missed the meaning." Carefully planned classroom activities allow students to discuss their service work and ensure that no one misses the lessons learned while serving others.

Connected to the Legal Community

The Law, Justice and Society program allows students to shake hands with federal and state legislators, lobbyists, attorneys and politicians. In fact, many of the class sessions will be taught by these distinguished and accomplished individuals. These connections can aid students with career placement or graduate school admission upon graduation from Lipscomb.

Program Outcomes

At the conclusion of the Law, Justice & Society academic program, graduates should possess these core knowledge, skills and abilities:

- ability to critically assess the working and implications of law in different social contexts;
- competence in the historical, comparative and global perspectives on law, justice and society;
- ability to scrutinize and test theories and concepts taught in class on real-world issues;
- exhibit substantive knowledge and understanding of socio-legal subject matter;
- demonstrate legal reasoning while analyzing material from divergent sources;
- exhibit effective oral and written communication skills;
- ability to formulate legal solutions that lead to social change; and
- ability to place legal issues in the broader context of society.

Career Opportunities

Graduates of the program will be prepared for careers in a variety of areas, including work in all three branches of government and with corporate and not-for-profit entities. Specific opportunities may include:

- Corporate compliance officer
- Negotiator or mediator
- Community advocate
- Nonprofit administrator
- Court management
- Risk management and claims adjusting
- Law firm management

Additionally, students will be prepared for graduate studies in other areas such as conflict management, law, public administration, and business.

Joint Law, Justice, and Society/Master of Conflict Management Program

Students majoring in Law, Justice and Society may pursue the Master of Arts in Conflict Management as part of a joint degree program that includes 120 hours of Law, Justice and Society classes and 30 hours of Institute for Conflict Management classes. Students should make this decision in concert with their academic advisor and would declare their intent to pursue the joint program at the same time as formal major-minor declaration. Students who choose this direction would need signatures from both the Institute for Law, Justice and Society and the Institute for Conflict Management at the time of declaration. This program does not require students to pursue a minor; however, if a student changes his or her emphasis, a minor must be added. Formal admission to the Master of Arts in Conflict Management program will take into account the student's undergraduate GPA and GRE scores. Please refer to the Graduate Catalog for more information.

Program Curriculum

Students majoring in law, justice and society can earn either a Bachelor of Science or a Bachelor of Arts degree. The major requires the completion of 45 hours specific to the Law, Justice and Society program. In addition to the specific required classes for all law, justice and society majors, students must select an emphasis area for the remaining 12 hours in the program. Each emphasis is comprised of numerous classes from which students may select. To minor in law, justice and society, students would need to complete 18 hours selected from the program's curriculum.

Requirements for Majors

Law, Justice and Society Major-Conflict Management Emphasis

B.A. or B.S. degree program

Total hours required— 45

Specific courses required—

Law, Justice and Society 2103, 2203, 3103, 3203, 3303, 390V, 4103 and 4203

Political Science 3433, 4203

Social Work 4513

Specific courses required—

Law, Justice and Society 3403, 3413, 3503, 4403

Law, Justice and Society Major-Law and Ethics Emphasis

B.A. or B.S. degree program

Total hours required— 45

Specific courses required—

Law, Justice and Society 2103, 2203, 3103, 3203, 3303, 390V, 4103 and 4203

Political Science 3433, 4203

Social Work 4513

Select four courses from:

Law, Justice, and Society 3503, 4303, 490V

Philosophy 3433, 3533, 366V

Bible 421V

Communication 3433

Law, Justice and Society Major-Social Change Emphasis

B.A. or B.S. degree program

Total hours required— 45

Specific courses required—

Law, Justice and Society 2103, 2203, 3103, 3203, 3303, 390V, 4103 and 4203

Political Science 3433, 4203

Social Work 4513

Select four courses from:

Law, Justice and Society 3513, 4303, 4413, 490V

Communication 2133, 3023

Philosophy 2013

Political Science 3413

Sociology 2113

History 4173

Note: Students pursuing the social change emphasis may want to consider a minor in social entrepreneurship, which is offered in cooperation with the College of Business.

Law, Justice and Society Major- Customizable Emphasis

B.A. or B.S. degree program
Total hours required— 45

Specific courses required—

Law, Justice and Society 2103, 2203, 3103, 3203,
3303, 390V, 4103 and 4203
Political Science 3433, 4203
Social Work 4513

Note: In consultation with the Law, Justice and Society director, students can customize a 12-credit hour emphasis using courses consistent with the student's articulated career plan.

Law, Justice and Society Major- Master of Arts in Conflict Management

B.A. or B.S. degree program/M.A. degree program
Total hours required— 75

Specific courses required—

Law, Justice and Society 2103, 2203, 3103, 3203,
3403, 3413, 3503, 390v, 4103, 4203, 4303, 4403
Integrated Studies 4103
Political Science 3433, 4203
Conflict Management 5003, 5013, 5023, 5073,
6073, 6083, and four ICM electives

Requirements for Minor

Law, Justice and Society Minor

Total hours required— 18

Specific course required—

Law, Justice & Society 2103

Fifteen additional hours selected from the LJS curriculum

Course Descriptions

Law, Justice and Society (LJS)

2103 Society and the Law (3) F, SP

This course introduces the central themes for the Law, Justice & Society program. Students gain an understanding of how law relates to society and how legal change relates to broader social change. Students explore the sociological and historical perspective on law and legal change. Focus is given to social and legal theory and to critically analyzing law and legal institutions in relation to equality, justice and fairness. The course blends class discussion, guest speakers, film clips and local field trips.

2203 Introduction to American Law (3) SP

This course is a basic introduction to the common and statutory law of the U.S. federal and state systems of law. It is designed to develop the students' understanding of American legal concepts and issues and to broaden understanding of American law and its processes. The course will highlight selected substantive areas in American law. The class will travel to Washington, D.C., to observe and to interact with the judicial, executive and legislative branches of our government. A travel fee will be assessed.

3103 Dispute Resolution (3) F

This course examines the principles and methods of dispute resolution, including negotiation, mediation, conciliation, arbitration and formal adjudication. Students will be able to describe the advantages and disadvantages of different types of dispute resolution. Using case-study methods, students will be able to analyze and to provide resolution for a variety of disputes using numerous techniques.

3203 Legal Research and Reasoning (3) F, SP, SU

This course teaches students the fundamentals of legal reasoning through a series of research and writing exercises. Students learn how to use available research resources, including computer databases. Emphasis will be given on improving analytical writing about social issues and legal change.

3303 Influencing Change through Civic Engagement (3) F, SP, SU

This service-learning course allows students to volunteer with a not-for-profit agency, designed to assist with a societal issue such as homelessness, legal aid for the poor, teen pregnancy or domestic violence. Through class discussions and reflective journaling, students will explore how the law facilitates or inhibits significant social change. This course may satisfy the SALT Tier II requirement.

3403 Conflict Management (3) F

This course provides an understanding of conflict in the context of the people involved and their relationship to each other. It draws from both the fields of psychology and sociology to provide a framework for understanding and assisting those parties to acute conflict, who often end up in the legal system. Cross-cultural conflict, communication in conflict and the psychology of conflict will be explored. Case studies, simulations and role-playing exercises will be utilized.

3413 International Conflict Management (3) SP

This course explores key questions and concepts in the study of international negotiations and conflict management. Students will learn how different factors and contexts can influence the negotiation process and its outcome. Students will better understand the complexity of conducting international negotiations and mediations by participating in simulations and studying actual cases involving peace and security issues, trade agreements and access to humanitarian aid.

3503 Ethics and the Laws of Compliance (3) F, SP, SU

This course applies ethical theories, research and practice to the law and justice system. Students will examine the moral dimensions of corporate law, ethical enforcement systems, issues in compliance and a variety of controversial issues associated with the civil and criminal justice systems applicable to business dealings.

3513 The Social Enterprise (3) F

This course focuses on utilizing entrepreneurial approaches to address global challenges. Socio-legal students will be challenged to think creatively about potential solutions to public challenges; entrepreneurially inclined students will be challenged to analyze rigorously the economic, social and political context that defines entrepreneurial opportunity. All students will design a social enterprise and devise approaches for assessing its impact. Skills developed in the course will enable students to act as effective leaders of change effected both through new ventures and through existing for-profit, nonprofit and government institutions.

390V Internship (1-3) F, SP, SU

This applied learning course allows students to seek a greater understanding of the legal system as an intern in a law-related agency. On-site work hours, written assignments and regular meetings are required. Credit varies according to the number of hours worked during the semester. This course may satisfy the SALT Tier III requirement.

4103 Law in the Global Community (3) SU

This course explores the tensions between a global economy that deliberately seeks to transcend geographic borders and the law which is historically bound by national jurisdictions. This course will analyze the structures, processes and principles of different kinds of legal systems. An international class trip to observe first-hand another country's legal system is required.

4203 Senior Research Project (3) F, SP, SU

This capstone course requires students to complete a senior research project under the direction of a faculty member. The project should build upon the service work done in Law, Justice and Society 3303, allowing the student to influence society through the law and legal change. Students must demonstrate the ability to design a study, conduct a scholarly literature review, review laws and legal precedents, gather and analyze data, present findings and create a law-based solution to the societal issue. Written research reports will be presented at a Law, Justice and Society Symposium open to government and community leaders. This course may satisfy the SALT Tier IV requirement.

4303 Special Topics: [Insert Topic] and the Law (3) F, SP

This course is designed to respond more quickly to the ever-changing issues in the law, justice and society area. It provides the ability to address current issues and other topics. Examples would include classes such as Immigration and the Law, Children and the Law, Women and the Law. This course may satisfy the SALT Tier II requirement.

4403 Mediation: Process, Skills and Theory (3) SP

This course examines the theory, law, and practice related to third party intervention in the resolution of legal disputes. The course explores mediation as a collaborative process of resolving conflict as well as the legislative, ethical and practical constraints on its use. The course equips students with the skills needed to serve in a mediation capacity. There is an emphasis on learning through simulation and role-playing exercises.

4413 Financial Management of the Social Enterprise (3) SP

This course focuses primarily on the financial management of new social enterprises and established nonprofits, exploring topics such as fundraising, grant writing, revenue generation through the provision of services provided, and capital acquisition. Students, many of whom will not have a background in accounting and finance, will explore the practical business implications gained from financial statements and will learn how to manage the firm's finances to create the best possibility for long-term success. At the end of the course, they will develop a three year financial plan for a start-up social venture and determine how to garner the resources needed to start the venture.

490V Independent Study (1-3)

Offered upon request

This course is designed to provide the student with a major or minor from the Institute for Law, Justice and Society the opportunity to pursue independent study or research. Variable credit offered at one, two or three hours according to individual need. Prerequisite: permission of program director.



Honors College

Honors College

Paul Prill, Director

The Honors College seeks to provide superior students with unique opportunities for intellectual challenge and growth. Classes are kept small in order that students and faculty members may exchange ideas in a format conducive to free discussion. Professors are chosen for their ability to inspire bright students to think and work independently and creatively, to develop intellectual curiosity, to express their ideas clearly and logically, and to respect the ideas of others. The college also encourages students to develop significant research interests and provides them with outlets on campus and at state and regional conferences to share their research with other students and faculty. In addition to the formal academic areas, the college seeks to help students develop by providing opportunities to attend musicals, plays, concerts, operas, lectures and art exhibits. The college is affiliated with the National Collegiate Honors Conference and is listed in Peterson's Guide to Honors Colleges, 4th edition. For more information about Honors College visit the website at honors.lipscomb.edu. Students can also contact the director by email at paul.prill@lipscomb.edu.

Requirements for Admission

Freshmen

Admission to The Honors College is competitive. Those seeking admission to the college must complete an application process. Incoming students must have a minimum ACT composite of 27 (SAT of 1220). Applications for The Honors College are available on the website noted above.

Other Students

Any student who has a 3.5 or higher GPA after the first semester may apply to be admitted to the college provided space is available. Transfer students who have participated in an Honors College or Honors Program at their previous institution may also apply to be admitted. Those entering the college after the first semester will need to meet with the director to determine how they will satisfy the requirements for graduation.

Requirements for Completing The Honors College

Students may opt to finish The Honors College either as an Honors College Graduate or as an Honors College Scholar. In either case, a student must complete the core curriculum and must have at least a cumulative 3.5 GPA in all courses at graduation. The core reflects the philosophy of The Honors College that all courses should adopt an interdisciplinary approach to learning. *The following core curriculum for The Honors College does not add any additional hours to a student's normal course load.*

HN 1003	Communication, Technology and Society
HN 1103	Honors Freshman Seminar
HN 2103	Honors Integrated Literature
HN 3413	Honors Engagements - Solving Complex Social Problems

Honors sections of the following courses are also available for accumulating credit hours in The Honors College, but they are not required.

BI 1073	The Story of Jesus
BI 1083	The Story of the Church
BI 1093	The Story of Israel
CM 1211/1221	General Chemistry Lab I and II

The Honors College Graduate must complete an additional six hours for a total of 18 hours beyond the core, either by taking honors courses or by doing honors contracts as explained below. The Honors College Graduate must make a presentation at the Lipscomb University Student Scholars Symposium or at a state or regional conference.

The Honors College Scholar must complete an additional four hours of course work, for a total of 22, to plan, prepare and defend an honors thesis or complete the SALT Scholar program. Students who plan to pursue a research-oriented graduate program should seriously consider the thesis option. Students who opt to become a Lipscomb University SALT Scholar must complete honors requirements in their SALT capstone to qualify as an Honors College Scholar. In addition, The Honors College Scholar must have at least two scholarly presentations either at the on-campus undergraduate research celebration or at a state or regional academic conference.

Students who complete The Honors College requirements will receive recognition on their transcript and in the commencement program at graduation. They will also receive a cord (Honors College Graduate) or a medallion (Honors College Scholar) to wear at the graduation ceremony.

Honors Contracts

Students can obtain honors credit by doing extra work in regular 2000-, 3000-, and 4000-level courses in their major or minor by means of a contract arrangement with the course instructor. After the first semester, students can only obtain honors credit in 1000-level courses if the course involves travel abroad. The honors contract seeks to foster creativity and independence of scholarship as well as to develop a mentoring relationship with the faculty member. The contract project should add to the academic dimension of the course by introducing new material or by allowing the student to pursue in greater depth one of the topics on the syllabus. The project should be of sufficient scope for the student to present its results at a conference. The proposed contract must be approved by the Advisory Committee by the end of the sixth week of the semester.

Honors Caveat

If an honors student fails to maintain a cumulative 3.5 GPA in all courses, the student will be notified of his or her provisional status in The Honors College. Students who fail to achieve a 3.5 GPA after two additional semesters will be suspended from the college. A student may reapply once he or she has achieved a 3.5 GPA. A student who fails to attend the minimum extracurricular activities or who fails to maintain the electronic portfolio will also be notified of his or her provisional status in The Honors College. Students will have one semester to rectify the extracurricular requirements before being suspended from The Honors College.

Course Descriptions

The Honors College curriculum serves as a substitute for much of the general education requirements for the university. The approach is deliberately interdisciplinary, inviting students to explore and understand how each of the various branches of learning in the university talk to each other and how learning several disciplinary “languages” can encourage both a broader and deeper understanding of the questions and answers offered inside of all courses. Students in The Honors College should not think that they are getting rid of general education requirements. Rather they should focus on how this integrated curriculum encourages them to develop their abilities to learn, to speak and to write about the significant issues within academic disciplines and within the civil society of which they are a part.

Honors (HN)

1103 Honors Freshman Seminar (3)

This course sharpens a student’s ability to read, write and speak at the collegiate level. The course focuses on helping students explore new ways of using different tools of thinking (analytics, imagination, metaphor, complexity, etc.) to focus on meeting the challenges of contemporary society. This course meets the requirements for LU 1103, Lipscomb Seminar.

1113 Communication, Technology and Society (3)

This course will examine the influence of new communication technologies and medical technologies on experience of human communication. In addition to covering some basic communication theory at the outset of the course, we will examine how cell phones, computers, Skype, social networking, PowerPoint, etc., have altered the landscape of interpersonal relationships, political campaigns and public speaking. We will explore how the newest developments in biomedical technologies, such as fMRI, influence the ways in which we understand and detect human intention in communication. Finally, we will discuss the ethical implications of the brave new world of communication technology. Students will make several presentations during the class so that they practice the skills necessary to advance in their majors and careers. This course meets the general education requirement for CO 1003, Introduction to Communication.

2103 Honors Integrated Literature (3)

Students will explore literature and another discipline around a particular topic. The instructors will select a topic and appropriate literature and other materials from different time periods and from Western and non-Western traditions. In addition to reading the literature, students will read at least one non-fiction work addressing the topic under consideration. Topics for the class will be suggested by students at the end of each semester, by the professor and/or by The Honors College Council. This course satisfies the LULT Integrated Literature general education requirement.

3111 Preparing the Senior Project (1)

Preparing the Senior Project is required of all students finishing as Honors College Scholars. Two semesters before students plan to graduate, they must enroll in this course designed to aid them in developing and defending a proposal for a SALT III project or for a research-based thesis. Students will develop a bibliography, select an advisory committee and submit a written proposal for the project.

3413 Solving Complex Social Problems (3)

The class will focus on one social problem, say population and sustainability, and explore it from economic, political, scientific and moral/theological perspectives. The course will be managed by one faculty member from one of these disciplines who will invite colleagues in for a week to discuss the particular perspective in which he/she has a specialty. Students will have in-class discussions about the problem from each perspective and about approaches which might address significant aspects of the problem. Students will also select a social problem which they wish to explore from these perspectives. This course satisfies the Engagements general education requirement.

4003 Senior Project (3)

The Senior Project is required of all students finishing as Honors College Scholars. The project must be of sufficient scope to warrant three hours credit. As part of the requirements for this course, the student will defend the thesis before his/her committee at the end of the semester. A student may apply for an extension should he/she fail to complete the thesis during the semester of registration for this course. Once the thesis is approved, it will be copied, bound and catalogued in the library. In addition, The Honors College will retain a copy of the thesis and the student and his/her adviser will receive a copy.



Notes





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Honors College

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Lauren Saunders, *Admissions Recruiter*
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Mackenzie Williams, *Admissions Recruiter*
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Frank Bennett, *Associate Athletic Director*
Linda Garner, *Associate Director for Academics and Senior Women's Administrator*
Brent High, *Associate Director for Spiritual Formation*
Andy Lane, *Associate Director for Development*
John Ezell, *Associate Director for Compliance and Budgets*
Greta Harber, *Compliance/Academics Assistant*
Jamie Gilliam, *Athletics Communication Manager*
Mark McGee, *Senior Publisher/Media Relations Director*
Paul Nance, *Director of Corporate Partnerships*
Sherry Phillips, *Associate Administrative Assistant*
Rhonda Lehmer, *NBC Administrative Assistant*
Kent Johnson, *Faculty Athletic Representative*
Kim Roberts, *Basketball Office Support Assistant*
Brian Ryman, *Director of Operations*
Lint Smith, *Athletic Facilities*

Athletic Coaches

Baseball

Jeff Forehand, *Head Coach*
James Ogden, *Assistant*
Paul Phillips, *Assistant*
Brian Ryman, *Director of Baseball Operations*

Basketball (Men's)

Casey Alexander, *Head Coach*
Stephen Drabyn, *Assistant*
Dwight Evans, *Assistant*
Roger Idstrom, *Assistant*

Basketball (Women's)

Greg Brown, *Head Coach*
John Wild, *Assistant*
Cara Cahak, *Assistant*
Anna Bowers, *Assistant*

Cross Country and Track and Field (Men's and Women's)

Bill Taylor, *Head Coach*
Luke Syverson, *Assistant*
Benton Reed, *Operations Coordinator*

Golf (Men's and Women's)

Will Brewer, *Head Coach*
Buddy Harston, *Assistant*

Soccer (Men's)

Charles Morrow, *Head Coach*
John Hayden, *Assistant*

Soccer (Women's)

Kevin O'Brien, *Head Coach*

Softball (Women's)

Kristin Ryman, *Head Coach*
Megan Smith, *Assistant*
J.J. Dillingham, *Assistant*

Tennis (Men's and Women's)

Jamie Aid, *Head Coach (Men's and Women's)*

Volleyball (Women's)

Brandon Rosenthal, *Head Coach*
Billy Ebel, *Assistant*

Strength and Conditioning

John Hudy, *Head Coach*
Will Osburn, *Assistant*

Athletic Trainer

Will Ness, *Head Trainer*
Carrie Calhoun, *Athletic Trainer*
Regina Hash, *Athletic Trainer*
Clint Woods, *Athletic Trainer*
Lesley Parrish, *Physical Therapist*

Beaman Library

Sandra Parham, *Director of Library Services*
Pam Eatherly
Lisa Mortensen
Susan Phifer
Rachel Pyle

Bookstore (operated by Sodexo)

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Kristina Zook, *Textbook Manager*

Business Office

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Shelia Demonbreun, *Student Accounts and Collections Representative*
Shawna Denny, *Student Accounts Representative*
Karie Duke, *Accountant*
Grady Folger, *Senior Accountant/Manager of Financial Reporting*
Cathy Freeman, *Bursar*
Julie Lillicrap, *Student Accounts Representative*
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Elizabeth Hayes, *Administrative Assistant*
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Matthew Abplanalp, *Director of Campus Recreation*
Sam Parnell, *Director of Greek Life*
Mike Smith, *Director of Outdoor Recreation*
Lisa Steele, *Coordinator of Latino Affairs*
Sylvia Braden, *Coordinator of International Student Services*

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Caroline Morris, *Assistant Campus Minister*
Jake Burton, *Mentorship Program*
Keela Smith, *Chapel Coordinator*
Teresa Maxwell, *Administrative Assistant*

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Laurie Sain, *Fanning Hall*
Caroline Gallagher, *Johnson Hall*
Sam Parnell, *Sewell Hall*

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Jonathan Williams, *The Village*

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Susan Lee, *VA Certifying Official*

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Jennifer Overstreet, *Assistant Construction Coordinator*

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Allison West, *Career Development Coordinator*

Carillonneur

Donna King

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Al Austelle, *Director of Center for Instructional Technology*
Keith O'Neal, *Instructional Designer*

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Robyn Saakian, *Director of Grant Services*
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Matt Sullivan, *Advancement Research Manager*
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Carrie Thompson, *Senior Director of Annual and Special Gifts*
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Rebekah Tran, *Catering Administration Coordinator*
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Jolyn Persons, *Unit Clerical Assistant*
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Kathleen Kimble, *Retail Manager - Food Court*
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Chris Morris, *ETS Events and Maintenance Engineer*
John Smajda, *Audio/Video Technician*

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Aaron Fiant, *Event Coordinator*
Naomi Lutz, *Event Coordinator*
Barry Thompson, *Event Operations Manager*
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Mindy Fernandez, *Box Office Manager*
Joshua Key, *Event Operations Specialist*
Samuel Montoya, *Event Operations Specialist*
Julius Whitaker, *Event Operations Specialist*

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