

Campbell School of Business

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The Campbell School of Business offers degree programs (B.S.) in:

Accounting
Finance
Marketing

Economics (B.S. or B.A.)
Management

The Campbell School of Business serves its stakeholders within the context of the mission of Berry College. The principal stakeholders are (a) those who *seek the benefit of education*, either directly as students and alumni, or indirectly as employers, (b) members of the *public and private sectors*, including regional businesses and non-profit organizations in north Georgia and beyond, and (c) the *academic community*, both at Berry College and at large. The Campbell School educates students through formal and informal programs, placing high priority on the education of the Head, the Heart and the Hands, and on currency of curriculum. The Campbell School's process of continuous improvement facilitates our serving these stakeholders' evolving needs.

Mission

The Campbell School of Business provides an excellent liberal arts-based business education that engages the Head, Heart, and Hands, while serving the academic and business communities through appropriate research and services.

Accredited Programs

Berry College is fully accredited by the AACSB (The Association to Advance Collegiate Schools of Business). Campbell School of Business also offers an accredited Masters of Business Administration program. More information is available at

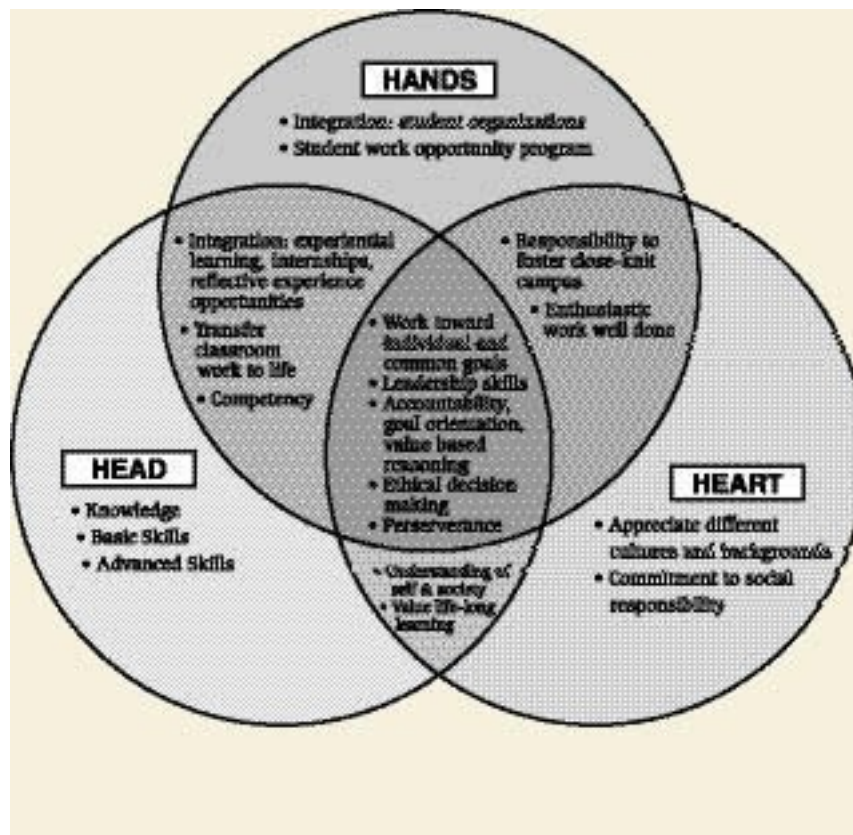
Admission to Degree Programs in the Campbell School

All entering freshmen and any transfer students who meet the Berry College admissions standards can be admitted into any of the degree programs in business or economics. Students may declare a major in Accounting, Economics, Finance, Management, or Marketing. Alternatively, a student may enter the business school as a prebusiness-undeclared student. This allows students the opportunity to experience some of the areas of business before declaring a major. Prebusiness-undeclared students must declare a major area prior to filing for graduation. When a prebusiness-undeclared student declares a major, the student's major requirements will be governed by the catalog in effect at the time of declaration.

Studies in Business and Economics

The curricula of the Campbell School of Business are built upon a foundation that represents the synergistic blending of undergraduate and graduate programs, of teaching and research, of development of technical skills, and broad concern for individual, social and economic values. This solid foundation makes the school a vital and exciting place to study and work. The faculty is committed to fulfilling the Berry College mission of educating the whole person: the *Head, Heart* and *Hands*. This commitment is evident throughout our curriculum and interactions among students, faculty, staff and the business community. The Campbell School experience inspires students to work conscientiously to add value for clients and create a better life for fellow workers. Students become an integral part of their business endeavors, as well as engaging in service to their community.

The undergraduate curriculum has three components: a solid foundation in the liberal arts, grounding in a common body of skills and knowledge important to the business professions, and opportunities for specialization in one of our majors. Through its curriculum, the Campbell School of Business stimulates critical thinking, helps students develop communication skills, provides a forum through which students can integrate and synthesize knowledge and fosters ethical decision making and leadership.



The concept of "Head, Heart and Hands" applied to the Campbell School of Business

Head

The curriculum challenges our faculty and students and responds to the needs of a rapidly changing business community. There are three goals for developing the Head: knowledge, basic skills and advanced skills. *Knowledge* includes the basic business information that is needed to engage in the modern business economy. *Basic skills* include general understanding of accounting and economic principles, business statistics and mathematics, computer skills, and oral and written communication. *Advanced skills* include the ability to demonstrate critical thinking and the ability to analyze and integrate complex information.

Heart

Education of the Heart includes two goals: to increase students' appreciation of other cultures and backgrounds and to enhance students' commitment to social responsibility. Students in the Campbell School of Business are exposed to a variety of cultural experiences to help them appreciate the rich diversity of the modern business environment. Team-based learning fosters an appreciation of the perspectives of others. The program includes service requirements beginning in the freshman year and continuing in student organization activities and in some courses. Social responsibility and sound business ethics are a consistent theme woven throughout the fabric of the curriculum.

Hands

The goal of educating the Hands is met through student participation in campus organizations and work experiences. Student organizations such as the Executive Round Table, the Berry Accounting Association, Beta Gamma Sigma, Omicron Delta Epsilon, the Berry Investment Group, and the Berry Association of Marketers facilitate contact with the business community and encourage exchange of ideas and discussion. Opportunities for student work exist college-wide and in the business community.

Head, Heart and Hands

Balance is important in both intellectual and personal growth. Synthesizing the components of the three areas leads to continuous personal growth and begins a career of lifelong learning. By balancing development within the three areas, students have a grasp of business knowledge and its application and are able to express informed opinions about business-related topics, evaluate situations in an ethical way and know when and how to apply techniques and concepts to situations to match their own interpersonal styles.

Business

SHARED BUSINESS CORE REQUIREMENTS

The Bachelor of Science degree with a major in accounting, finance, management or marketing has a shared business pre-core and core which is summarized below. Students majoring in accounting, finance, management or marketing must complete all of the pre-core classes with a minimum grade of C- in each course.

Area:		Semester Hours
Berry College General-Education Requirements		53
Business Pre-core		21-22
ACC 201	Principles of Financial Accounting	3-0-3
ACC 202	Principles of Managerial Accounting	3-0-3
BUS 211	Business Statistics	3-0-3
ECO 110	Principles of Economics I (general education)	3-0-3
ECO 210	Principles of Economics II	3-0-3
MAT 145	Applied Calculus (general education) or	3-0-3
MAT 201	Calculus (general education)	4-0-4
MAT 111	Elementary Statistics (general education)	
	or	
MAT 311	Probability and Statistics (general education)	3-0-3
Business Core		24
BUS 210	Legal Environment of Business	3-0-3
BUS 308	Ethical Issues in Business	3-0-3
BUS 316	Information Systems	3-0-3
MKT 301	Principles of Marketing	3-0-3
FIN 301	Principles of Finance	3-0-3
MGT 301	Principles of Management	3-0-3
MGT 453	Operations Management	3-0-3
BUS 499WI	Global Business Strategy	3-0-3
Requirements for Selected Major	(as specified below)	15 to 18 hours
Electives required to complete a total of 124 semester hours		8 to 23 hours

- Students must have a 2.0 GPA in both their shared business core and major-specific classes in order to graduate.
- No more than 50 percent of the courses used to satisfy the business core or major-specific classes can be transferred from another institution.

Use of information technology: Specific software and information technology requirements will be listed in individual course syllabi and an opportunity will be provided during the first few weeks of a course to complete any computer-based training modules that were not completed earlier.

Accounting

Faculty: Associate Professors Biggart and Carnes

Students majoring in accounting may select from a variety of career paths including but not limited to public accounting, management accounting, internal auditing and government accounting. Students interested in public accounting usually sit for the Certified Public Accountant (CPA) exam. Georgia CPA exam candidates must have 150 semester hours of college credit, including a bachelor's degree and 30 semester hours in accounting beyond accounting principles. Additional information concerning the CPA examination may be found at www.cpa-exam.org. Students not interested in sitting for the CPA exam should work closely with their accounting advisor to design a course of study consistent with their career objectives. While the 18-hour major offers a solid background in accounting, students who plan careers as professional accountants need additional training. For these students, completion of 21 semester hours of accounting beyond accounting principles is strongly encouraged. Accounting students are encouraged to work closely with their advisors as they develop their degree plans.

Requirements

Shared Business Core		24 hours
Major-Specific Classes		18 hours
Accounting Requirements		18 hours
ACC 301	Intermediate Accounting I	3-0-3
ACC 302	Intermediate Accounting II	3-0-3
ACC 311	Cost Accounting	3-0-3
ACC 331	Tax Topics	3-0-3
ACC 416	Accounting Information Systems	3-0-3
ACC 420	Auditing	3-0-3

Finance

Faculty: Associate Professors Johnston and Kosedag

Finance is the art and science of managing money. The main goal of the finance major is to expose students to three primary areas of finance: (1) managerial or corporate finance, (2) investments, and (3) money and capital markets. Knowledge of all three areas and a broad business background are important for success in the finance field. Corporate finance covers the role of the financial manager, especially pertaining to the issues of capital budgeting, capital structure and financing decisions. The investments area deals with the risks and returns associated with individual investments, with stocks, bonds and

mutual funds and the basics of portfolio management. Students also gain familiarity with the workings of the stock market and buying and selling stock. A study of money and financial markets provides an understanding of the role of financial markets, institutions, and instruments in the economic environment in which businesses and other agencies operate. Concepts such as the time value of money, understanding and interpreting financial statements and ratios, risk and return, asset valuation and financial planning run throughout the curriculum.

Berry College also provides students with a hands-on experience managing a real investment portfolio that started out with a \$100,000 balance. The Berry Investment Group (BIG) is a student organization dedicated to educating students and managing the portfolio. BIG members meet to discuss individual stocks and the stock market and to hear from guest speakers in the investments field. While BIG is open to students across the campus, finance majors are particularly active in the organization.

Requirements

Shared Business Core		24 hours
Finance Requirements		6 hours
FIN 310	Investments	3-0-3
FIN 401	Intermediate Corporate Finance	3-0-3
Finance Electives	Choose four from the list below (at least 3 must have the FIN prefix):	12 hours
ACC 301	Intermediate Accounting	3-0-3
ACC 331	Tax Topics	3-0-3
ECO 302	Intermediate Macroeconomics	3-0-3
FIN 331	Financial Markets, Institutions and Money	3-0-3
FIN 410	Portfolio Management/Investment Analysis	3-0-3
FIN 440	International Economics and Finance	3-0-3
FIN 455	Futures and Options Markets	3-0-3
FIN 460	Topics in Finance	3-0-3
FIN 498	Directed Study in Finance	3-0-3

Management

Faculty: Gund Professor Dhir; Garrett Professor Grout; Professors Granrose and LeBlanc; Associate Professor P. Englis; Assistant Professor Colakoglu

Management involves the planning, organizing, staffing, leading and controlling of business functions and organizations. It is concerned with the optimum fit of the organization's external and internal environments. As part of the firsthand experience, management students will participate in supervised employment, internships on and off campus, research experience, entrepreneurships, and/or study abroad experiences as part of their program of study. Students with a major in management will study such topics as human resources management, organizational behavior, efficient production and service-delivery methods, strategic planning and other elements of the management process.

Students can take a variety of electives to customize their major whether focusing on general management, international management or small business management.

Requirements

Shared Business Core		24 hours
Major-Specific Classes		15 hours
Management Requirements		6 hours
MGT 302WI	Organizational Behavior	3-0-3
MGT 345	Management of Human Resources	3-0-3
Management Electives		9 hours
BUS 212	Gender and Business	3-0-3
BUS 358	Current Topics in Business	3-0-3
BUS 410	International Business	3-0-3
BUS 416	Business and Society	3-0-3
MGT 340	Intro to Entrepreneurship	3-0-3
MGT 415	MGT 415 Cross-cultural Management	3-0-3
MGT 440	Advanced Entrepreneurship	3-0-3
MGT 460	Special Topics in Management	3-0-3
MGT 498	Directed Study in Management	3-0-3
MKT 427	E-Commerce Marketing Strategy	3-0-3
PSY 355	Psychology of Interpersonal Relations	3-0-3

Marketing

Faculty: Professors Edgerton, B. Englis and Albers-Miller; Assistant Professor Littlefield

The discipline of marketing is eclectic in nature, drawing from the natural and social sciences in developing and expanding its content. As such, the areas of accounting, economics, law, mathematics, philosophy, psychology, sociology and other related disciplines are drawn upon for the conceptual, theoretical and empirical underpinnings of the marketing discipline. A wide range of career opportunities is available to marketing graduates. The challenges of marketing require men and women with creative ability, intelligence and skill who are prepared to fill an ever-increasing number of senior staff and executive positions. Marketing students examine consumer behavior, marketing research and analysis, market segmentation, positioning, product policy, advertising and communications, distribution and pricing, and their impacts on the design and implementation of marketing strategies. The marketing program introduces the student to the role of marketing in both the firm and in society.

Requirements

Shared Business Core		24 hours
Major-Specific Classes		18 hours
Marketing Requirements		9 hours
MKT 322	Consumer Behavior	3-0-3
MKT 323WI	Marketing Research and Analysis	3-0-3
MKT 499	Marketing Strategy	3-0-3
Marketing Electives		9 hours
MKT 326	Personal Selling	3-0-3
MKT 327	Qualitative Research Methods	3-0-3
MKT 423	Product Development	3-0-3
MKT 424	Marketing Communications	3-0-3
MKT 425	International Marketing	3-0-3
MKT 426	Experiential Marketing: Marketing Sports and the Arts	3-0-3
MKT 427	E-Commerce Marketing Strategy	3-0-3
MKT 428WI	Advanced Marketing Research	3-0-3
MKT 498	Directed Study (in Marketing)	3-0-3
COM 375	Principles of Public Relations*	3-0-3

*Student must meet COM 375 prerequisites, shown with the course description in that section of the catalog.

Economics

Faculty: Professors LeBlanc and Stephenson; Associate Professors Sockwell and Roseman; Assistant Professor Yeoh

Economics examines how individuals and societies use their scarce resources. A method rather than a doctrine, economics is an apparatus of the mind which helps its possessors to draw correct conclusions. As such, the economic way of thinking has been applied to issues as diverse as global warming and crime and as timely as proposals for a national sales tax and the impact of free-trade agreements. Regardless of the issue considered, economics has social relevance; virtually every decision that individuals and societies make has an economic dimension. The Berry College economics faculty are committed teachers and scholars, bridging the liberal arts and business curricula. Courses in economics develop critical-thinking, writing and communication skills, thereby providing excellent preparation for careers or postgraduate studies. Economics majors often pursue careers in banking, business or public service. They typically earn high salaries relative to other majors. Economics also provides a sound basis for graduate study in economics, law or public policy; for example, economics majors routinely perform better than other majors on the Law School Admission Test. Whatever students' career ambitions, economics is an interesting and intellectually stimulating field of study. This study is not limited to the classroom; economics students participate in many firsthand experiences such as study abroad, internships, and student research.

Students majoring in economics choose either the Bachelor of Arts degree or the Bachelor of Science degree. While the requirements for the two degrees are largely the same, this choice provides students the flexibility to tailor their course of study to their interests. In making the choice of degree, students should consult graduation requirements 8 and 9, page 38.

The Bachelor of Science degree with a major in economics

The requirements for the Bachelor of Science degree with a major in economics are summarized below:

Area:	Semester Hours
Berry College	
General-Education Requirements	53
Economics Pre-core	12-13
ECO 110	Principles of Economics I 3-0-3
ECO 210	Principles of Economics II 3-0-3
MAT 145	Applied Calculus (general education) or 3-0-3
MAT 201	Calculus (general education) 4-0-4
MAT 111	Elementary Statistics (general education) or Probability and Statistics (general education) 3-0-3
MAT 311	
Note: MAT 311 has MAT 202 as a prerequisite	
Students majoring in Economics must complete all of the pre-core classes with a minimum grade of C- in each course.	
Economics Core	12
ECO 301	Intermediate Microeconomic Analysis 3-0-3
ECO 302	Intermediate Macroeconomic Analysis 3-0-3
ECO 420	Introduction to Econometrics 3-0-3
ECO 440	International Economics and Finance or
ECO 450WI	Comparative Economic Systems 3-0-3
Economics Electives	Fifteen hours of additional economics courses at or above the 300 level 15
Additional Bachelor of Science in Economics Requirements	9-10
Bachelor of Science economics majors must complete the following	
ACC 201	Principles of Financial Accounting and two of the following courses 3-0-3
ACC 202	Principles of Managerial Accounting
BUS 211	Business Statistics 3-0-3
MKT 301	Principles of Marketing 3-0-3
FIN 301	Principles of Finance 3-0-3

MAT 202	Calculus II	4-0-4
MAT 203	Calculus III	4-0-4
MAT 303	Linear Algebra	3-0-3
MAT 311	Probability and Statistics (if not used for pre-core)	3-0-3

Electives required to complete a total of 124 semester hours

The Bachelor of Arts degree with a major in economics

The requirements for the Bachelor of Arts degree with a major in economics follow:
Semester Hours

Area:		Semester Hours
Berry College General-Education Requirements		53
Economics Pre-core		12-13
ECO 110	Principles of Economics I	3-0-3
ECO 210	Principles of Economics II	3-0-3
MAT 145	Applied Calculus (general education) or	3-0-3
MAT 201	Calculus (general education)	4-0-4
MAT 111	Elementary Statistics (general education)	
	or	
MAT 311	Probability and Statistics (general education)	3-0-3

Note: MAT 311 has MAT 202 as a prerequisite

Students majoring in Economics must complete all of the pre-core classes with a minimum grade of C- in each course.

Economics Core	(B.A. Degree)	12
ECO 301	Intermediate Microeconomic Analysis	3-0-3
ECO 302	Intermediate Macroeconomic Analysis	3-0-3
ECO 310WI	History of Economic Thought	3-0-3
ECO 415WI	Economic History of the United States	3-0-3
ECO 440	International Economics and Finance or	
ECO 450WI	Comparative Economic Systems	3-0-3

Economics Electives (B.A. Degree) 12

Complete twelve hours of additional economics courses at or above the 300 level. *No More than 50 percent of the courses used to satisfy the business core or major-specific classes can be transferred from another institution.* **Fulfillment of the foreign-language requirements for the Bachelor of Arts degree** (See the Requirements for Undergraduate Degrees section in this catalog.) **Electives required to complete a total of 124 semester hours**

Campbell School Minors

The Campbell School of Business offers minors in business and economics. Business

minors are not available to students who earn a major in business administration, but economics minors may be elected by students in any program. Students from other schools in Berry College are encouraged to broaden their perspectives by choosing minors in business or economics.

Minor in Business

21 hours

Business minors must complete the business minor Pre-core and core plus 6 additional business elective hours.

Business-Minor Pre-core Courses 6 hours ACC 201 Principles of Financial Accounting 3-0-3 ECO 110 Principles of Economics I (general education) 3-0-3

Required Business-Minor Core Courses 9 hours MKT 301 Principles of Marketing 3-0-3 FIN 235 Personal Finance or FIN 301 Principles of Finance* 3-0-3 MGT 301 Principles of Management 3-0-3 *Prerequisite of ACC 201

Elective Business-Minor Courses 6 hours Two courses chosen from ACC 202, BUS 210 or any 300-level or 400-level ACC, BUS, FIN, MGT or MKT courses for which all prerequisites have been met. A student completing the Business Minor must complete at least 9 hours in the minor at the 300 or 400 level. Students taking FIN 235 cannot take both ACC 202 and BUS 210.

Minor in Economics

18 hours

Economics minors must complete two principles of economics courses and an additional 12 hours of elective economics courses.

Required Economics Pre-core 6 hours ECO 110 Principles of Economics I (general education) 3-0-3 ECO 210 Principles of Economics II 3-0-3

Elective Economics-Minor Courses 12 hours. Choose 12 hours of 300- or 400-level economics courses for which all prerequisites have been met.

Charter School of Education and Human Sciences

Dean: Jacqueline M. McDowell, Cook Hall Telephone: (706) 236---2238---5827

The Charter School of Education and Human Sciences offers courses and field experiences in teacher education, psychology, health and physical education, and family studies. Five majors and four minors are offered through the Charter School.

Majors:

- Early Childhood Education (B.S.) for teaching pre---kindergarten to grade 3
- Exercise Science (B.S.)
- Health and Physical Education (B.S.) for teaching pre---kindergarten to grade 12
- Middle---Grades Education (B.S.) for teaching grades 4---8
- Psychology (B.A./B.S.)

Minors:

- Secondary Education (for teaching grades 6---12. Students must complete a subject area—English, biology, chemistry, physics, government, history, mathematics—and minor in education.)
- P---12 Education (for teaching preschool through grade 12. Students must complete a subject area—art, French, German, Spanish, health/physical education—and minor in education.)
- Family Studies
- Psychology

Effective professionals in education and psychology rely upon a strong knowledge base, intensive training, a strong code of ethics and significant and varied experience. The programs in the Charter School of Education and Human Sciences are innovative, academically challenging and field-based. Exciting opportunities are available for students with an interest in research to work with faculty on a variety of projects.

Education

Faculty: Professors Bell, Clement, Inman, Jennings, Jory, McDowell, Marlow, Pearson and Green Professor Wakefield; Associate Professors Belvin, Carpenter, Ference, Haney, Johnson-Pynn, Kurz and Prince; Assistant Professors Chapman, and Pu; Instructor Roe; Director of Field Experiences and Student Teaching Outlaw

The teacher-education programs at Berry have a long and distinguished history of excellence. Our faculty thrives on both proven and fresh ideas, superior teaching and “the personal touch.” Classes are usually small, allowing for individual attention and rich interactions among faculty and students. Because we think diverse experiences make

stronger teachers, students have numerous opportunities for travel and study in international locales. Our common purpose is best expressed through the conceptual framework, “developers of human potential.” As developers of human potential, we have crafted a learning environment that values compassion, stimulates the intellect and encourages original thinking.

Berry’s three on-campus schools, the Child Development Center (for ages 3-5), the Berry College Elementary School (for grades K-6) and the Berry College Middle School (for grades 7-8), are private schools (open to the public) that provide models of best practice. The Child Development Center is housed in a set of log cabins on the main campus and features several play areas, including a large playground and a variety of outdoor classroom facilities. Located on a scenic hilltop on the mountain campus, Berry College Elementary School sports three playgrounds, a historic library and a gymnasium/auditorium. Two classrooms of middle-school students are also housed in the teacher-education building. The Child Development Center and Berry College Elementary and Middle Schools are used for observation, field experiences and student-teaching experiences.

Additional field experiences are scheduled in any one of several nearby schools with which Berry College has an extensive, ongoing, collaborative relationship. The Office of Field Experience and Student Teaching works diligently to place Berry students with some of the most outstanding teachers in the area. The Office of Field Experiences and Student Teaching monitors student progress toward teacher certification, from admission to the teacher-education programs through student teaching.

All certification requirements are established by the Georgia Professional Standards Commission (PSC). Berry College standards are subject to change based on the PSC requirements.

Objectives

The objective of the teacher-education program is to prepare teachers who are developers of human potential. Martha Berry, the founder of Berry College, saw potential where others did not in the Appalachian youth for whom the Berry Schools and, later, the college were established. Like Martha Berry, we believe the role of excellent teachers is to develop the potential every student has to gain a lifelong appreciation of learning; to acquire the basic skills and wide repertoire of thinking strategies with which to construct and evaluate knowledge; to become morally responsible and fully participating partners in a democratic society within an ever-changing world; to develop and enhance a healthy self-esteem; and to work cooperatively with others to foster improvements in society. In order to be developers of human potential, teachers should (1) promote reflection and decision making (head), (2) facilitate learning (hands) and (3) enhance self- and social awareness (heart). To meet the expectations of these roles, teachers’ actions must rest on the foundations of what they know through research (head), the collective wisdom of experience (hands) and their own values (heart). There must be a constant interaction between this knowing and doing. Teachers must continually reflect on lesson implementation, instructional materials used, student responses, school environment and

values. This reflection in turn produces more knowledge, which is then used to refine what teachers do. The Field Experience Handbook elucidates the 10 principles that form the basis of the teacher-education program at Berry College.

Accredited Programs

Teacher-education programs, approved by the Georgia Professional Standards Commission and the National Council for Accreditation of Teacher Education, and leading to teaching certification, are offered in these areas:

Early Childhood (P-5)	Preschool–12th Grade (P-12)
Middle Grades (4-8)	Art
Secondary (7-12)	Foreign Language
English	French
Mathematics	German
Biology	Spanish
Chemistry	Health and Physical Education
Physics	Music
History	
Government	

Requirements

Admission to Teacher-Education Program

A student who desires admission to the teacher-education program must meet the following criteria and assume responsibility for following guidelines published by the Charter School of Education and Human Sciences. Students are eligible to be considered for admission to the teacher-education program after they have accomplished the following:

Completed EDU 102 with a C or better. Please note: A grade of C is equal to 2.0 on a 4-point scale; a grade of C- (1.7) is insufficient for courses requiring a C (2.0) or better.

Completed two semesters of college work and have at least a 2.50 grade-point average.

Passed the GACE Basic Skills Assessment or attained sufficient scores on the SAT or ACT as defined by the GA PSC to waive GACE requirements.

Completed the application form for admission to the teacher-education program and the ethics statement and insurance-coverage waiver, and filed it along with two letters of recommendation from college faculty with the director of field experiences and student teaching in the Charter School of Education and Human Sciences.

Satisfied an employment criminal-history clearance (completed background check).

Education courses at or above the 300 level may not be taken until the student is admitted to the teacher-education program. When students are accepted into the program, careful consideration is given in planning their academic program to ensure coordination between the major professor in their academic field and the director of field experiences and student teaching.

Requirements for Senior Practicum

Student teaching is a vital part of the teacher-education program. During the field-based senior year experience, students are supervised by a certified teacher with a minimum of three years' in-field experience and by a Berry faculty member. Students participate in

courses encouraging reflection on their experiences, thereby integrating college course work with classroom practice.

To be eligible for Senior Practicum, a student must have

1. been admitted to the Teacher-Education Program;
2. completed application for Student Teaching, including the advisor's signature; submitted application form to the Office of Field Experience and Student Teaching by the third Friday of the semester, one (1) year before planning to begin the senior practicum;
3. Completed the biographical data form and submitted it to the Office of Field Experience and Student Teaching by the third Friday of the semester, one (1) semester before beginning the senior practicum;
4. Earned a grade of C (2.0) or better in each course in the major field;
5. Earned a grade of C (2.0) or better in each course taken in the professional-educational sequence;
6. A 2.50 cumulative grade-point average; and
7. Received recommendation of the academic advisor and the director of field experiences and approval of the Admissions and Certification Committee;
8. Completed all assigned field experiences.

Requirements for Student Teaching (EDU 499)

Continuation in the field-based senior year is predicated upon the student's progress in the initial semester of the senior practicum, as well as his/her progress in the academic coursework.

To be eligible to continue the field-based senior year, the student must have:

1. The recommendation of the cooperating teacher;
2. The recommendation of the college supervisor;
3. Completed the request form for continuing in student teaching, submitted to the Office of Field Experience and Student Teaching by the seventh week of the semester during Student Teaching;
4. Taken GACE Content Assessment prior to the beginning of the semester in which he/she is enrolled in EDU 499, and had scores sent to Berry College;
5. Maintained at least a 2.5 cumulative grade-point average;
6. Earned a C (2.0) or better in each course in the professional education sequence, the major field, COM 203 and an approved math course;
7. Earned a C (2.0) or better in ENG 102.

Applications should be made one year before the semester in which the student desires to engage in student teaching. For detailed requirements, see The Student Teaching Handbook, available in the office of the director of field experiences.

Special Qualifications

All teacher-preparation students are required to maintain a minimum grade of C in all education courses and in all subject-area courses counted toward the major. As a grade of C is equal to 2.0 on a 4-point scale; a grade of C- (1.7) is insufficient for courses

requiring a C or better.

Prior to being certified in the state of Georgia, a student must pass the GACE Content Assessments in her or his area of preparation. Students must take the GACE Content Assessments and have the score released to Berry College prior to beginning the semester in which they are enrolled in EDU 499 or they will be required to complete another exit exam.

Graduate Programs

Berry College offers a Master of Education degree in early childhood (P-5) education, in middle-grades (4-8) education, in secondary (6-12) education and in reading. Also offered is an Education Specialist program with leadership focus. Details regarding these programs, admission requirements and course credits may be secured from the Charter School of Education and Human Sciences office, the dean of admissions or the Graduate Catalog. More information is available at <http://www.berry.edu/academics/education/graduate>.

Majors and Required Courses

Early Childhood Education Major (P-5)

The early childhood education major leads to the Bachelor of Science degree and prepares teachers for certification in preschool (P) through grade 5. Early childhood education teachers must have an extensive general education, a thorough understanding of the principles of human growth and development, specialized study in a variety of professional-education courses, experiences designed to prepare teachers for working with preschool children and planned field-based experiences with diverse and exceptional children. These experiences must provide application and synthesis of theoretical learning.

Special Requirements

A minor is not required when majoring in early childhood education. ENG 204 and MAT 220 are to be taken as part of the general-education requirements.

Required Courses

EDU 102	Orientation to Teacher Education	1-0-1
EDU 205	Foundations of Education and Psychology (Grades P-5)	3-0-3
EDU 221	Exploration of Diverse Cultures Seminar <i>and</i>	1-0-0
EDU 222	Exploration in Diverse Cultures <i>or</i>	1-4-3
EDU 223	Exploration of Diverse Cultures I <i>and</i>	2-0-2
EDU 224	Exploration of Diverse Cultures II	0-1-1
EDU 227	Preschool Curriculum and Methods	2-2-3
EDU 260	Technology Applications for Educators	2-0-2
EDU 320	Literacy I for Early Childhood	4-0-4
EDU 321WI	Literacy II for Early Childhood	4-0-4
EDU 322	Integrated Arts and Cultures for Early Childhood I	3-0-3

EDU 323	Integrated Arts and Cultures for Early Childhood II	4-0-4
EDU 340	Inquiry in Science and Mathematics for Early Childhood	3-0-3
EDU 370WI	Curriculum and Methods for Early Childhood I	2-2-3
EDU 371WI	Curriculum and Methods for Early Childhood II	2-2-3
EDU 405	Instructional Management	2-0-2
EDU 429	Diagnosis and Correction of Reading	3-0-3
EDU 488	Senior Practicum	4 hours
EDU 490	Professional Seminar	1-0-1
EDU 495	Teaching of English as a Second Language: Methods and Materials	3-0-3
EDU 499	Student Teaching	9 hours
MAT 321	Mathematical Inquiry in Early Childhood Education	3-0-3
PSY 225	Child Development	3-0-3
PSY 423	Introduction to Exceptional Children and Youth	1-0-1
PSY 424	Psychology and Education of Exceptional Children and Youth	2-0-2
	Total	67 hours

Middle-Grades Education Major (4-8)

The middle-grades (MG) education major leads to the Bachelor of Science degree and prepares teachers for certification in grades 4-8. The middle-grades teacher must have a broad general education in addition to a knowledge of the techniques and materials needed to teach many different subjects.

Special Requirements

ENG 204 and MAT 220 are to be taken as part of the general-education requirements. It is suggested that middle-grades majors have a faculty mentor in their area of primary concentration in addition to their education advisor.

Required Professional Courses

EDU 102	Orientation to Teacher Education	1-0-1
EDU 206	Foundations of Education and Psychology (Grades 4-12)	3-2-4
EDU 215	Integrated Arts and Cultures for Middle Grades I	3-0-3
EDU 216	Integrated Arts and Cultures for Middle Grades II	3-0-3
EDU 221	Exploration in Diverse Cultures Seminar	1-0-0
EDU 222	Exploration in Diverse Cultures <i>or</i>	1-4-3
EDU 223	Exploration of Diverse Cultures I <i>and</i>	2-0-2
EDU 224	Exploration of Diverse Cultures II	0-1-1
EDU 260	Technology Applications for Educators	2-0-2
EDU 330	Literacy I for Middle Grades	3-0-3
EDU 331WI	Literacy II for Middle Grades	3-0-3
EDU 341	Inquiry in Science and Mathematics for Middle Grades	3-0-3
EDU 375WI	Curriculum and Methods I for the Early Adolescent Learner	2-2-3
EDU 376	Curriculum and Methods for Middle Grades II	2-2-3

EDU 405	Instructional Management	2-0-2
EDU 430	Reading in the Content Areas	3-0-3
EDU 489	Senior Practicum	2 hours
EDU 490	Professional Seminar	1-0-1
EDU 495	Teaching of English as a Second Language: Methods and Materials	3-0-3
EDU 499	Student Teaching	9 hours
MAT 322	Mathematical Inquiry in the Middle Grades	3-0-3
PSY 423	Introduction to Exceptional Children and Youth	1-0-1
PSY 424	Psychology and Education of Exceptional Children and Youth	2-0-2
	Total	57 hours

Primary and Secondary Concentrations

Students majoring in middle-grades education are required to choose a primary concentration and a secondary concentration in addition to the professional-education courses. The primary concentration will be chosen from the areas of language arts, science, social studies or mathematics. The secondary concentration will be selected from one of the three areas not chosen for the primary. Some courses satisfying general-education requirements may also satisfy primary and secondary concentrations; however, courses satisfying professional education or the major may not be counted again in the concentration. Each concentration must consist of at least 15 hours.

Language

Arts

COM 201	Mass Communication and Society	3-0-3
ENG 427	Young Adult Literature	3-0-3
	One course in writing from among the following:	
ENG 301	Introduction to Creative Writing: Poetry	3-0-3
ENG 302	Introduction to Creative Writing: Fiction	3-0-3
ENG 303WI	Advanced Rhetoric and Writing	3-0-3
	Six additional hours in ENG or COM	

Science

Students will complete one sequence of the following courses:

BIO 111*	Principles of Cell Biology and	3-2-4
BIO 112	Principles of Biology II	3-2-4
BIO 202	Principles of Zoology	3-2-4
BIO 215	Principles of Microbiology and Botany	3-2-4
GEO 101*	Physical Geology and	3-2-4
GEO 102	Historical Geology	3-2-4
PHY 111*	General Physics I with Algebra and	3-2-4
PHY 112	General Physics II with Algebra or	3-2-4
PHY 211*	General Physics I with Calculus and	3-2-4
PHY 212	General Physics II with Calculus	3-2-4

Students must also take one course in each of the other two disciplines or chemistry for a

total of four courses representing three different areas of science for a minimum total of 15 hours.

*Certain mathematics courses may be required for students taking this sequence.

Social Sciences

HIS 154*	World History to 1550	3-0-3
HIS 155*	World History Since 1550	3-0-3
HIS 205	American History to 1877	3-0-3
SOC 335	Social Inequality: Race, Class and Gender or	3-0-3
GOV 300-level course		

Three additional hours in ECO, GOV or HUM*

Mathematics

MAT 120	Pre-calculus	4-0-4
MAT 145	Applied Calculus or	3-0-3
MAT 201	Calculus I	4-0-4
MAT 220*	Mathematics for Teachers P-8	3-0-3
MAT 324	Geometry for the Middle Grades	3-0-3

Three additional hours in MAT

*May be taken as part of general education.

Total hours required 75-79

Minors and Required Courses

SECONDARY EDUCATION MINOR (LEADS TO CERTIFICATION FOR GRADES 6-12)

Students interested in teaching in grades 6-12 should have a major in a subject area and a minor in education. Secondary teacher certification is available in English, mathematics, biology, chemistry, physics, history and government. Students seeking teacher certification at the secondary level have two advisors, a major advisor in the subject area and a minor advisor in education.

P-12 EDUCATION MINOR (PRESCHOOL THROUGH TWELFTH GRADE)

P-12 certification is available in art, French, German, Spanish, health and physical education and music. Students seeking P-12 teacher certification have two advisors, a major advisor in the subject area and a minor advisor in education.

Special Requirements

ENG 204 is to be taken as part of the general-education requirement. The ESOL endorsement is required for all secondary and P-12 majors and is recommended for music majors.

Requirements

EDU 102	Orientation to Teacher Education	1-0-1
EDU 206	Foundations of Education and Psychology (Grades 4-12)	3-2-4
EDU 221	Exploration in Diverse Cultures Seminar	1-0-0

EDU 222	Exploration in Diverse Cultures <i>or</i>	1-4-3
EDU 223	Exploration of Diverse Cultures I <i>and</i>	2-0-2
EDU 224	Exploration of Diverse Cultures II	0-1-1
EDU 380	Curriculum and Methods for Secondary Education	3-2-4
EDU 405	Instructional Management	2-0-2
EDU 489	Senior Practicum	2 hours
EDU 490	Professional Seminar	1-0-1
EDU 495	Teaching of English as a Second Language: Methods and Materials	3-0-3
EDU 499	Student Teaching	9 hours
PSY 423	Introduction to Exceptional Children and Youth	1-0-1
PSY 424	Psychology and Education of Exceptional Children and Youth	2-0-2

Special Qualifications

English majors will also take EDU 430.

Physical-education majors are required to take HPE 305 instead of EDU 380.

Music majors will take MUS 305 instead of EDU 380.

Art majors will also take ART 304.

Foreign-language majors will also take 400 FLA listed in their majors.

It is strongly recommended that all secondary and P-12 education students take EDU 260 Technology Applications for Educators or a computer class within their content area.

Family Studies Minor

Faculty: Professors Bell and Jury; Associate Professors Haney, Johnson-Pin and Johnston; Assistant Professor Allred

Cook Building, Room 261 Telephone: (706) 290-2640

Family Studies focuses on marriage and family education, family intervention services, and family policies. The goal of Family Studies is to improve all types of families by applying scientific methods to questions about intimacy, relationships, parenting, dating, marriage development, sexuality, and diverse family forms. Students can minor in family studies by declaring the minor through their academic advisor. The minor attracts students from many majors across campus, including religion, literature, psychology, sociology, history, communication, business and early childhood education. For information, contact Dr. Brian Jury, Director of Family Studies, bjory@berry.edu.

The minor will consist of 18 hours. The following courses are required:

FAM 230	Marriage and Family	3-0-3
FAM 330 WI	Family Problems and Intervention	3-0-3
FIN 225	Personal Finance	3-0-3
PSY 221WI	Life-Span Developmental Psychology	3-0-3
and at least two of the following courses:		
EDU 440	Children in Families, Communities and Cultures	3-0-3

FAM 300	Family Life Education	3-0-3
FAM 496	Academic Internship	3 hours
PSY 342	Child and Adolescent Psychology	3-0-3
PSY 390	Adulthood and Aging	3-0-3
SOC 350	Sociology of the Family	3-0-3

Kinesiology

Faculty: Professor Pearson; Associate Professor Kurz; Assistant Professor Baldwin-Lanier; Lecturers Beasley, Canalis, Deaton, Farrer, Haarlow, Hightower, King, Preston, Schul, Thiermann, and Vardy
CAGE Center, Telephone: (706) 236-2225 • FAX (706) 802-6735
E-mail BOLD-HPE@berry.edu

General-education courses in health and physical education are designed to inform students about subjects of health, fitness and first aid; and to develop skills in the areas of sports, dance, aquatics and adventure-type activities. Emphasis is based on carry-over values for lifetime participation and enjoyment.

The department offers a Bachelor of Science degree in Physical Education with an Exercise Science emphasis. The major will offer a candidate a fine preparation for graduate studies in athletic training, physical therapy and/or exercise science specialties and will serve as preparation for fitness and wellness career opportunities.

A major in health and physical education (HPE) leads to a Bachelor of Science degree. The teacher-preparation area of concentration prepares the student for a teaching career, grades preschool through 12.

Objectives

The objectives of the area of health and physical education are to

- engage all students in wellness activities and develop in them an appreciation for lifetime fitness;
- prepare majors for successful careers in teaching and coaching; and
- prepare majors to participate actively in professional organizations.
-

Required courses for teacher-preparation concentration

BIO 206	Human Anatomy and Physiology I	3-2-4*
BIO 207	Human Anatomy and Physiology II	3-2-4
EDU 102	Orientation to Teacher Education	1-0-1
EDU 206	Foundations of Education and Psychology (Grades 4-12)	3-2-4
EDU 221	Exploration in Diverse Cultures Seminar and	1-0-0
EDU 222	Exploration in Diverse Cultures or	1-4-3
EDU 223	Explorations in Diverse Cultures I and	2-0-2
EDU 224	Explorations in Diverse Cultures I	0-1-1
EDU 260	Technology Applications for Educators	2-0-2
EDU 405	Instructional Management	2-0-2
EDU 489	Senior Practicum	2 hours
EDU 490	Professional Seminar	1-0-1
EDU 495	Teaching of English as a Second Language: Methods and Materials	3-0-3

EDU 499	Student Teaching	9 hours
ENG 204	Introduction to Linguistics	3-0-3*
HPE 220	First Aid	2-0-1*
HPE 221	Survey of Fitness	0-2-1*
KIN 256	History and Principles of Health, Physical Education and Athletics	3-0-3
KIN 301	Techniques of Teaching Team and Individual Sports	1-2-3
KIN 305	Curriculum and Methods in Physical Education	3-2-4
KIN 306	Survey of Dance	3-0-3
KIN 309	Adapted Physical Education	3-0-3
KIN 310	Developmentally Appropriate Physical Education for P-6	3-0-3
KIN 311	Biomechanics	3-2-4
KIN 312WI	Health for the Teacher	3-0-3
KIN 313	Community Health	3-0-3
KIN 314	Adventure Sports	1-2-3
KIN 330	Motor-Learning Behavior	3-0-3
KIN 411WI	Exercise Physiology	3-2-4
MAT 111	Elementary Statistics	3-0-3*
PSY 423	Introduction to Exceptional Children and Youth	1-0-1
PSY 424	Psychology and Education of Exceptional Children and Youth	2-0-2
	Plus any other three credit courses offered in the department	

Total

88 hours*

*One biology course, ENG 204, HPE 220, HPE 221 and MAT 111 may count as 12 hours of general education.

EXERCISE SCIENCE MAJOR (64 hours) Required Courses

BIO 111	Principles of Cell Biology	3-2-4
BIO 206	Human Anatomy and Physiology I	3-2-4
BIO 207	Human Anatomy and Physiology II	3-2-4
HPE 220	First Aid	0-2-1
HPE 221	Survey of Fitness	0-2-1
KIN 256	History and Principles of Health, Physical Education and Athletics	3-0-3
KIN 311	Biomechanics	3-2-4
KIN 312WI	Health for the Teacher	3-0-3
KIN 313	Community Health	3-0-3
KIN 330	Motor-Learning Behavior	3-0-3
KIN 404	Sport Administration	3-0-3
KIN 411WI	Exercise Physiology	3-2-4
KIN 413	Exercise Assessment and Prescription	2-2-3

KIN 496	Academic Internship	9 hours
KIN 498	Directed Study in Nutritional Analysis	3 hours
MAT 111	Statistics	3-0-3
	plus at least eight hours from the following:	
BIO 202	Principles of Zoology	3-2-4
CHM 108	General Chemistry I	3-3-4
PHY 111	General Physics I with Algebra or	3-2-4
PHY 211	General Physics I with Calculus	3-2-4

*Two of the lab courses from different disciplines (BIO, CHM, PHY), MAT 111 and HPE 220 may satisfy 12 hours of the general-education requirements.

Students who plan to attend graduate school may also want to complete CHM 109 General Chemistry II (3-3-4), Physics 112 General Physics II with Algebra (3-2-4), and a three-hour HPE elective.

Psychology

Faculty: Professors Bell, Briggs, Jennings and McBrayer; Associate Professors Bissonnette, Diliberto-Macaluso, Haney, Logsdon-Conradson and Johnson-Pynn
Cook Building Telephone: (706) 290-2660

Objectives

The psychology major is a course of study leading to the degree of Bachelor of Arts or Bachelor of Science. The psychology major fosters the development of student's understanding of the theory and content of psychology; utilization of research methods and critical thinking skills; application of psychology to personal, social and organizational issues; and acting ethically based on the values of the profession. The major prepares students for graduate study and/or careers that apply their academic background in psychology.

Requirements

40 hours

Students are required to take these courses:

PSY 101	Introduction to Psychology <i>or</i>	3-0-3
PSY 103	Psychology in Context	3-0-3
PSY 205	Orientation to Psychology	1-0-1
PSY 360WI	Research Methods and Statistics I	3-0-3
PSY 361WI	Research Methods and Statistics II	3-0-3
PSY 470	History and Systems of Psychology	3-0-3

Subtotal 13 hours

plus at least three of four of the following courses:

PSY 207	Psychology of Personality	3-0-3
PSY 221WI	Life-Span Developmental Psychology	3-0-3
PSY 304	Social Psychology	3-0-3
PSY 318	Abnormal Psychology	3-0-3

minimum 9 hours

	and at least one course from:		
PSY 405WI	Learning		3-0-3
PSY 406WI	Cognitive Psychology		3-0-3
		minimum	3 hours
	and at least one course from:		
PSY 410	Sensory and Perceptual Processes		3-0-3
PSY 411	Behavioral Neuroscience		3-0-3
		minimum	3 hours
	and 12 hours of psychology electives		
		Total	40 hours

Psychology Minor

A minor in psychology requires PSY 101 or PSY 103 and 15 semester hours of psychology electives, nine of which must be at the 300-400 level.

Special Qualifications

Participation in a research practicum (PSY 298) requires at least sophomore status. Participation in an internship (PSY 496) and directed study (PSY 498) requires at least junior status. The internship consists of from three to six semester hours of credit and may, with permission, be repeated for a total of 12 hours of credit. No more than six internship credit hours may be applied to the psychology major, and no more than three internship credit hours may be applied to the psychology minor.

All psychology majors must complete the Educational Testing Service's Major Field exam in psychology during their last semester.

The Evans School of Humanities, Arts and Social Sciences offers degree programs in fine, performing and communication arts; history, languages and letters; philosophy and religion; and the social sciences — here defined as government and international studies, history, sociology and anthropology. These disciplines provide a wide range of course-work in support of the college mission and promote the mission — educating the head, the heart and the hands — by teaching critical thinking, sound values and cultural appreciation.

The following majors are available in the Evans School of Humanities, Arts and Social Sciences; students majoring in these areas receive either the Bachelor of Arts (B.A.), Bachelor of Science (B.S.) or Bachelor of Music (B.M.), as designated.

- | | |
|--|---|
| Art (B.A.) | History (B.A.) |
| Communication (B.A.) | Music (B.A., B.M.) |
| English (B.A.) | Religion and Philosophy (B.A.) |
| French (B.A.) | Sociology and Anthropology (B.A., B.S.) |
| German (B.A.) | Spanish (B.A.) |
| Government and International Studies
(B.A., B.S.) | Theatre (B.A.) |

The school and the college exist for the pursuit of truth; the accurate transmission of knowledge; the general well being of society; and the personal, spiritual and intellectual development of students. Both school and college have, therefore, established teaching excellence, exemplary ethical conduct and commitment to research as priorities.

As principal custodian of liberal studies, the Evans School of Humanities, Arts and Social Sciences affirms effective communication, appreciation of the arts and humanities, understanding of modern society and the broader concerns of philosophy and theology as its special provinces. The school uncompromisingly pledges its administration, faculty and staff to continued activity in those pursuits.

Communication

Faculty: Professor McKee; Associate Professors Carroll and Frank; Instructor Peterson; Lecturer and Student Publications Advisor Kleine; Lecturer and Director of Forensics Richardson; Visiting Assistant Professor Conrad
 Laughlin 101 Telephone: (706) 233-4089

A major in communication is available with concentrations in journalism, public relations and visual communication. The major allows students to become well versed in a variety of visual communication technologies while remaining grounded in the liberal-arts tradition of communication studies. The curriculum offers students a well-rounded preparation in the theories, principles and skills needed for graduate study in mass communication and for the expanding opportunities in communication careers.

The goal of the communication major is to improve the writing, speaking and visual-communication skills of students by providing instruction and practice in the skills needed in modern mass media; developing an overall understanding of the field of communication, including the history and organization of media, as well as their social, cultural and economic impacts; and instilling an appreciation of communication as an integral part of a liberal-arts education.

A communication major includes at least 39 hours. Students must complete the communication core and one of the major concentrations. Since only the Bachelor of Arts degree is offered for communication majors, all majors must complete the foreign-language requirement of that degree.

Communication majors will not be allowed to complete a minor in the same area as their major concentration. In addition, communication majors will not be allowed to minor in any communication minor whose list of courses contains more than three of the same courses required for the major core.

COMMUNICATION MAJOR: 39 hours

Required

Communication Core:		27 hours
COM 201	Foundations of Mass Communication	3-0-3
COM 300	Visual Rhetoric	3-0-3
COM 301	Reporting and Writing	2-2-3
COM 303	Editing	3-0-3
COM 305	Multimedia Production	2-2-3
COM 312	Contemporary Persuasion	3-0-3
COM 415WI	Theories of Communication	3-0-3
COM 416WI	Media Law	3-0-3
COM 450	Senior Seminar in Ethics	3-0-3

COMMUNICATION CONCENTRATIONS

Majors select *only one* concentration. To complete a concentration, students must complete at least nine hours from the indicated courses.

Journalism

Concentration

at least 9 hours

COM 306	Public-Affairs Reporting	3-0-3
COM 322	Feature Writing	3-0-3
COM 329	Introduction to Digital Communication	3-0-3
COM 331	Economics of News	3-0-3
COM 353	Photojournalism	3-0-3
COM 429 J	Seminar	3-0-3

Public Relations

Concentration

at least 9 hours

COM 375	Principles of Public Relations	3-0-3
COM 380	Public Relations Writing	3-0-3
COM 385	Public Relations Cases and Campaigns	3-0-3
COM 390	Public Relations Administration	3-0-3
COM 417	Methods of Audience Analysis	3-0-3
COM 429 P	Seminar	3-0-3
Visual Communication	at least 9 hours	
COM 302	Visual Media Criticism	3-0-3
COM 307	Commercial Photography and Production	3-0-3
COM 320	Programming and Distribution	3-0-3
COM 326	Scriptwriting and Copywriting	3-0-3
COM 425	Narrative Video Production	2-2-3
COM 429 V	Seminar	3-0-3

Majors must complete at least three additional hours of either communication courses or a course selected from the following: EDU 260 (2 hrs), MGT 340, ENG 300, MKT 427*, ART 350, ART 351, or FLM 210. Majors are strongly encouraged to use COM 496 to satisfy this requirement.

*prerequisite required

COMMUNICATION MINORS

Public Relations Minor

21 hours

COM 300	Visual Rhetoric	3-0-3
COM 301	Reporting and Writing	2-2-3
COM 303	Editing	3-0-3
COM 305	Multimedia Production	2-2-3
COM 375	Principles of Public Relations	3-0-3

and two additional courses from the following:

COM 380	Public Relations Writing	3-0-3
COM 385	Public Relations Cases and Campaigns	3-0-3
COM 390	Public Relations Administration	3-0-3

Journalism Minor

18 hours

COM 201	Foundations of Mass Communication	3-0-3
COM 300	Visual Rhetoric	3-0-3
COM 301	Reporting and Writing	2-2-3
COM 303	Editing	3-0-3
COM 305	Multimedia Production or	2-2-3
COM 353	Photojournalism	3-0-3
COM 306	Public-Affairs Reporting or	3-0-3
COM 322	Feature Writing	3-0-3

Communication majors may not minor in journalism.

Speech Minor

18 hours to be selected from

COM 206	Voice and Diction Improvement	3-0-3
COM 302	Visual Media Criticism	3-0-3
COM 312	Contemporary Persuasion	3-0-3

COM 314	Oral Interpretation	3-0-3
COM 415WI	Theories of Communication	3-0-3
COM 416WI	Media Law	3-0-3
COM 429	Seminar in Communication	3-0-3

English, Rhetoric and Writing

Faculty: Professors Cooley, Dasher, Meek, Tenger and Trolander; Associate Professors Bucher, Diller, Johnson, Taylor, Watkins and Whelan; Assistant Professor Mejia; Lecturers Powell and Van Cise Evans Hall, Room 225 Telephone: (706) 368-5625 The English major introduces students to ethical, aesthetic, intellectual and cultural issues embodied in a wide variety of literary genres drawn from broad historical periods. The goal is to acquaint students with the English and American literary traditions, methods of textual analysis, the diversity of theoretical approaches to literature, and the history, structure and varieties of the English language.

A major in English requires 39 semester hours. The department offers 200-level courses to introduce students to the British, American and world literary traditions as well as methods of literary research and analysis. Courses at the 300 and 400 levels concentrate on specific historical periods, genres, minority literatures and authors, and provide opportunities for in-depth study of literary texts.

ENGLISH MAJOR REQUIREMENTS

Students must complete the requirements of the English core plus one of the major concentrations.

English Core	21 hours	
ENG 240	Introduction to Literary Studies	3-0-3
ENG 337	Western Literary Tradition	3-0-3
One 300-level course in British literature, pre-1800		
ENG 316	Medieval Literature	3-0-3
ENG 318	Renaissance Literature	3-0-3
ENG 323	Restoration and 18th-Century Literature	3-0-3
One 300-level course in British literature, post-1800		
ENG 325	Romantic Literature	3-0-3
ENG 327	Victorian Literature	3-0-3
ENG 329	Modern British Literature	3-0-3
One 300-level course in American literature		
ENG 333WI	American Romanticism and Transcendentalism	3-0-3
ENG 334WI	American Realism and Naturalism	3-0-3
ENG 335WI	Twentieth-Century American Literature	3-0-3
One 300-level course in multicultural literature		
ENG 331WI	Contemporary Literature	3-0-3
ENG 332	Postcolonial Literature	3-0-3

ENG 339WI	African American Literature	3-0-3
ENG 342	Women's Literature	3-0-3
One 400-level "Studies" course		
ENG 418	Studies in Cinema	3-0-3
ENG 420WI	Studies in Literary Criticism and Theory	3-0-3
ENG 422	Studies in Major Author(s)	3-0-3
ENG 424	Studies in Theme	3-0-3
ENG 426WI	Studies in Genre	3-0-3
ENG 428	Topics in Literature and Language	3-0-3
ENG 432WI	Studies in Southern Literature	3-0-3
ENG 434	Studies in Linguistics	3-0-3

Students must choose one of the following concentrations in order to complete the requirements for the major.

Literature

Concentration	18 hours	
ENG 401WI	Shakespeare	3-0-3
One additional 300-level course in British Literature from the following:		
ENG 316	Medieval Literature	3-0-3
ENG 318	Renaissance Literature	3-0-3
ENG 323	Restoration and 18th-Century Literature	3-0-3
ENG 325	Romantic Literature	3-0-3
ENG 327	Victorian Literature	3-0-3
ENG 329	Modern British Literature	3-0-3
One additional 300-level course in American Literature from the following:		
ENG 333WI	American Romanticism and Transcendentalism	3-0-3
ENG 334WI	American Realism and Naturalism	3-0-3
ENG 335WI	Twentieth-Century American Literature	3-0-3
One additional "Studies" course from the following:		
ENG 418	Studies in Cinema	2-2-4
ENG 420WI	Studies in Literary Criticism and Theory	3-0-3
ENG 422	Studies in Major Author(s)	3-0-3
ENG 424	Studies in Theme	3-0-3
ENG 426WI	Studies in Genre	3-0-3
ENG 428	Topics in Literature and Language	3-0-3
ENG 432WI	Studies in Southern Literature	3-0-3
Two 3-hour English electives		6 hours

Secondary Education Concentration 18 hours

ENG 204	Introduction to Linguistics	3-0-3
ENG 401WI	Shakespeare	3-0-3
ENG 427	Young Adult Literature	3-0-3
One course in writing from the following:		

ENG 300	Writing for Online Environments	3-0-3
ENG 301	Introduction to Creative Writing: Poetry	3-0-3
ENG 302	Introduction to Creative Writing: Fiction	3-0-3
ENG 303WI	Advanced Rhetoric and Writing	3-0-3
ENG 305	Creative Writing: Creative Nonfiction	3-0-3
ENG 306	Principles of Writing Pedagogy	3-0-3
Two 3-hour English electives 6 hours		

Writing Concentration

18 hours

ENG 301	Introduction to Creative Writing: Poetry	3-0-3
ENG 302	Introduction to Creative Writing: Fiction	3-0-3
And either:		
ENG 303WI	Advanced Writing and Rhetoric, or	3-0-3
ENG 300	Writing for Online Environments	3-0-3
And either:		
ENG 470	Advanced Creative Writing: Poetry or	3-0-3
ENG 471	Advanced Creative Writing: Fiction	3-0-3
One additional English course in writing from the following:		

ENG 303WI	Advanced Writing and Rhetoric	3-0-3
ENG 300	Writing for Online Environments	3-0-3
ENG 304	Introduction to Playwriting	3-0-3
ENG 305	Creative Writing: Creative Nonfiction	3-0-3
ENG 306	Principles of Writing Pedagogy	3-0-3
ENG 470	Advanced Creative Writing: Poetry	3-0-3
ENG 471	Advanced Creative Writing: Fiction	3-0-3
ENG 490	Writer's Tutorial	3-0-3
One 3-hour English elective 3 hours		

ENGLISH MINOR: 18 hours

A minor in English requires two courses at the 200 level and 12 additional hours, of which at least nine hours must be taken at the 300 and/or 400 level.

WRITING MINOR: 18 hours

The Writing Minor consists of 18 hours taken from the following courses:

ENG 300	Writing for Online Environments	3-0-3
ENG 301	Introduction to Creative Writing: Poetry	3-0-3
ENG 302	Introduction to Creative Writing: Fiction	3-0-3
ENG 303WI	Advanced Rhetoric and Writing	3-0-3
ENG 304	Introduction to Playwriting	3-0-3
ENG 305	Creative Writing: Creative Nonfiction	3-0-3

ENG 306	Principles of Writing Pedagogy	3-0-3
ENG 470	Advanced Creative Writing: Poetry	3-0-3
ENG 471	Advanced Creative Writing: Fiction	3-0-3
ENG 490	Writer's Tutorial	3-0-3
ENG 200	Rhetoric and Writing Practicum	1 to 3 hours
COM 301	Writing for the Mass Media	3-0-3
COM 322	Feature Writing	3-0-3
COM 324	Broadcast Writing	3-0-3

Students who minor in writing but who also want to major in English may do so only if they choose either the Literature or Secondary Education Concentrations.

FIRST-YEAR PROGRAM IN RHETORIC AND WRITING

Berry College has made a commitment to educate students to achieve excellence in thinking and writing. Because writing is fundamental to discovery and learning, to analysis and communication, the program aims to improve students' ability to reason, acquire and assimilate knowledge and articulate what they have learned. The courses focus on developing students' analytical and critical-thinking skills to enable them to generate ideas through the prewriting, drafting and revision stages of essay development. The goal is to create a community of writers who can participate in the significant political, ethical and cultural debates of our time and who are appreciative of the value, power and pleasure of words. Matriculated students may not complete ENG 101 or 102 as transient students elsewhere.

Students are required to take these courses:

ENG 101 First-Year Seminar in Rhetoric and Writing

ENG 102 First-Year Seminar in Critical Inquiry and Writing

Students may exempt ENG 101 through Advanced Placement Tests. Students who do exempt ENG 101 should enroll in ENG 102 during their first term. All students are encouraged to enroll in the appropriate ENG course during their first term.

Rhetoric and Writing Practicum (ENG 200 for 1 to 3 credit hours) is by permission of instructor only and is designed for students who work in Berry's Writing Center.

Fine Arts

Faculty: Professors Davis, Mew and Pethel; Associate Professors Adams, Boy, Bristow, Countryman, Garrido, Lykins and Troy; Assistant Professors Carlisle and Smith; Lecturers Baker, Elkins, Musselwhite and Schul; Artist-in-Residence Hayes

Art

Moon Building, Room 104 Telephone: (706) 233-4089, 238-5841 or 290-2692 The major in art leading to the Bachelor of Arts degree is available in three concentrations:

studio art, art history and art education. Each program of study is designed to help students better understand aesthetic values through involvement in the creative-art process.

The curriculum leading to a concentration in studio art or art history requires a minimum of 39 semester hours (including the 24-hour art core). ART 450, Senior Thesis, is required of all B.A. candidates electing a concentration in studio art or art history. Studio candidates prepare a one-person exhibition for their thesis; students in art history prepare a written thesis. Berry College reserves the right to select and retain a work of art from the senior-thesis show and to make that work of art a part of the permanent student-art collection at the college.

Teacher certification is available in art. Students wishing to pursue teacher certification should minor in education and select a member of the education faculty to serve as a second advisor.

The curriculum leading to the Bachelor of Arts (art-education concentration) requires a minimum of 39 semester hours (including the 24-hour art core) and is planned to meet requirements of the State of Georgia for preschool through 12th-grade teacher certification in art. Students pursuing this option must seek the advice of the Berry College Charter School of Education and Human Sciences. The students must take the professional-education sequence (including ART 304) and satisfy requirements of the Georgia Department of Education for course work in specific art-content areas.

All B.A. majors in the department of art are required to complete the foreign-language requirement for that degree.

Affiliated with the art program is the Moon Gallery, which houses student exhibitions and exhibitions by professional artists. Each year artists of national and international stature visiting the campus enrich the program for all students pursuing art courses.

ART MAJOR REQUIREMENTS 39 hours (B.A. studio-art, art-history concentration, or art-education concentration)

Art Core	21 to 24 hours	
Students must take the following:		
ART 102	Two-Dimensional Design	2-2-3
ART 201	Survey of Art I	3-0-3
ART 202	Survey of Art II	3-0-3
ART 220	Beginning Drawing	2-2-3
ART 284	Hand Building Clay	2-2-3
ART 405WI	Modern Art Seminar	3-0-3
ART 410WI	Early 20th-Century Art	3-0-3
Students concentrating in studio art and art history take ART 450 Senior Thesis 0-10-3.		

Studio-Art Concentration 15 hours
Students select 15 hours from the following courses:

ART 321	Figure Drawing	2-2-3
ART 327	Web Design I	3-0-3
ART 350	Light Media	2-2-3
ART 351	Digital Imaging	2-2-3
ART 379	Throwing Clay	2-2-3
ART 382	Printmaking	2-2-3
ART 384	Beginning Painting	2-2-3
ART 385	Intermediate Printmaking	2-2-3
ART 386	Intermediate Painting	2-2-3
ART 388	Advanced Painting	2-2-3
ART 389	Advanced Clay	2-2-3
ART 415	Advanced Studio Problems	2-2-3
ART 496	Academic Internship	3 to 12 hours
ART 498	Directed Study	1 to 3 hours

Art-Education

Concentration 18 hours

Students take the following courses:

ART 304	Art Education for Early Childhood and Middle Grades	2-2-3
ART 321	Figure Drawing	2-2-3
ART 350	Light Media	2-2-3
ART 379	Throwing Clay	2-2-3
ART 382	Printmaking	2-2-3
ART 384	Beginning Painting	2-2-3

Art-education students are required to have an education faculty member as their secondary advisor. In addition to the art concentration, they take the professional-education sequence (education minor) listed in the catalog under the Charter School of Education and Human Sciences section, Minors and Required Courses, Preschool-12.

Required education courses	27 hours	
EDU 102	Orientation to Teacher Education	1-0-1
EDU 206	Foundations of Education and Psychology (Grades 4-12)	3-2-4
EDU 222	Exploration in Diverse Cultures	1-4-3
EDU 380	Curriculum and Methods for Secondary Education	3-2-4
EDU 489	Student Teaching I	2 hours
EDU 490	Professional Seminar	1-0-1
EDU 499	Student Teaching II	9 hours
PSY 423	Introduction to Exceptional Children and	1-0-1

PSY 424	Youth Psychology and Education of Exceptional Children and Youth	2-0-2
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It is required that art-education majors add the course work necessary for the ESOL endorsement to their certification: ENG 204 Introduction to Linguistics and EDU 495 Teaching of English as a Second Language: Methods and Materials.

Art History Concentration 15 hours

Students select 15 hours from the following courses:

ART 230	Irish Art Seminar	3-0-3
ART 301	The Renaissance in Italy	1-0-1
ART 308	Ancient Greek and Roman Art	3-0-3
ART 320WI	Renaissance Art	3-0-3
ART 325	Baroque and Rococo Art	3-0-3
ART 330WI	Pre-Columbian and Latin American Art	3-0-3
ART 408WI	Nineteenth-Century Art	3-0-3
ART 420	Art Theory and Criticism	3-0-3
ART 413WI	Women and Art	3-0-3
ART 496	Academic Internship	3 to 12 hours
ART 498	Directed Study	1 to 3 hours

Art Minor Requirements

A minor in art consists of 21 semester hours. At least 9 semester hours must be in courses numbered 300 or above. The following courses totaling 12 hours are required:

ART 102	Two-Dimensional Design	2-2-3
ART 201	Survey of Art I or	
ART 202	Survey of Art II	3-0-3
ART 220	Beginning Drawing	2-2-3
Any 300- or 400-level art history course		3-0-3

Select an additional 9 hours of art courses, with at least two at the 300 level or above.

Music

Ford, Room 215 Telephone: (706) 236-2289; Fax: (706) 238-7874

The mission of the Berry College music program is to educate students in the discipline of music and to provide quality musical experiences for all Berry students. It seeks to prepare students for professional careers in music and to provide all interested students and community members with opportunities to appreciate, enjoy and participate in musical performances.

Students are admitted to the music program by audition. Financial aid is available.

The Bachelor of Arts degree requires 12 hours in a foreign language.

The Bachelor of Music degree offers majors in music education and music with elective studies in business. Students majoring in music education are required to take the professional-education sequence, and those majoring in music with elective studies in business must complete the required courses in business.

All music majors are required to participate in at least one major performing group each semester of enrollment.

Specific degree requirements in music are as follows.

Core Courses for all Music degrees 27 hours

Music Theory	17 hours	
MUS 101	Elementary Theory	3-0-3
MUS 102	Elementary Theory	3-0-3
MUS 201	Intermediate Theory	3-0-3
MUS 202	Intermediate Theory	3-0-3
MUS 301	Form and Analysis	2-0-2
MUS 302	Composition and Arranging	3-0-3
*Music History and Literature	10 hours	
MUS 347	Literature and History of Music I	2-0-2
MUS 348WI	Literature and History of Music II	3-0-3
MUS 349WI	Literature and History of Music III	3-0-3
MUS 355	World Music	2-0-2

*Three hours of music history may be used to satisfy the fine-arts requirement, and three hours of either 348WI or 349WI may be counted toward the humanities elective requirement in the general-education requirement for graduation for all music degrees.

Bachelor of Arts

Major in Music	49 total hours
Music Core	27 hours
Applied Music Lessons	14 hours (2 per semester for 7 semesters)
Electives	8 hours (may be combined with outside minor or additional applied lessons)
General and/or Music Electives	10 hours
Foreign Language, single concentration	12 hours

Bachelor of Music

MAJOR IN MUSIC WITH ELECTIVE STUDIES IN BUSINESS

60 total hours in music including music core courses

Music Core	27 hours
Music Industry (MUS 390)	2 hours
Academic Internship (MUS 496)	6 hours
Applied Music Lessons	14 hours (2 per semester for 7 semesters)
Special Music Courses	11 hours

For students pursuing two applied areas, 11 hours will be selected with the approval of the department chair.

	Hours
Instrumental-major track	
MUS 190 (instrumental training)	2
MUS 196-197, 296-297 (piano)	4
MUS 328 or 329 (conducting)	2
Electives	3
Piano-major track	
MUS 190 (instrumental training)	2
MUS 328 or 329 (conducting)	2
†MUS 450 (piano literature)	3
Electives	4
	†Offered every other year
Voice-major track	
MUS 190 (instrumental training)	2
MUS 196-197, 296-297 (piano)	4
MUS 328 or 329 (conducting)	3
Electives	3
Business Courses 24 hours (minor in business)	
Business Minor Pre-core Courses	9 hours
ACC 201 Principles of Financial Accounting	3-0-3
BUS 107 Business-Information Management	3-0-3
ECO 110 Principles of Economics I (general education)	3-0-3
Required Business Minor Core Courses	9 hours
FIN 301 Principles of Finance	3-0-3
MGT 301 Principles of Management	3-0-3
MKT 301 Principles of Marketing	3-0-3
Two courses selected from the following:	6 hours
BUS 210 Legal Environment of Business	3-0-3
BUS 308 Ethical Issues in Business	3-0-3
BUS 316WI Information Systems	3-0-3
FIN 310 Investments	3-0-3
MGT 302WI Organizational Behavior	3-0-3
MGT 340 Management of Small Business	3-0-3

MGT 345	Management of Human Resources	3-0-3
MKT 322	Consumer Behavior	3-0-3
MKT 326	Personal Selling	3-0-3

Students must meet the prerequisites of the individual business courses.

Major in Music Education

60 total hours in music including music core courses

Music Core	27 hours
Applied Music Lessons	14 hours (2 per semester for 7 semesters)
Special Music Courses	19 hours

For students pursuing two applied areas, 19 hours will be selected with the approval of the department chair.

Instrumental-major track

	Hours
MUS 191/192/193/194 (instrumental methods)	8
MUS 195 (voice class)	1
MUS 196-19, 296-297 (piano)	4
MUS 328 and 329 (conducting)	4
†MUS 422 (band literature)	2

Piano-major track

MUS 190 (instrumental training)	2
MUS 195 (voice class)	1
MUS 328 and 329 (conducting)	4
†MUS 439 (choral literature)	3
†MUS 447 (piano methods)	3
†MUS 450 (piano literature)	3
Electives	3

Voice-major track

MUS 190 (instrumental training)	2
MUS 196-197, 296-297 (piano)	4
MUS 328 and 329 (conducting)	4
†MUS 439 (choral literature)	3
†MUS 444 (vocal literature)	3
Electives	3

†Offered every other year

Required Education

Courses	Hours
EDU 102 Orientation to Teacher Education	1-0-1
EDU 206 Foundations of Education and Psychology (Grades 4-12; includes field experience)	3-2-4
EDU 222 Exploration in Diverse Cultures	1-4-3
EDU 489 Student Teaching I	2 hours

EDU 490	Professional Seminar	1 hour
EDU 499	Student Teaching II	9 hours
MUS 305	Music Curriculum (includes field experience)	2-2-3
MUS 402	Music Education	2-0-2
PSY 423	Introduction to Exceptional Children and Youth	1-0-1
PSY 424	Psychology and Education of Exceptional Children and Youth	2-0-2

NOTE: For state certification in music, field experiences at elementary, middle-grades and secondary levels are required. Students should do field experience for EDU 206 and MUS 305 in an area different from that of student teaching. It is highly recommended that music-education majors add the course work necessary for the ESOL endorsement to their certification: ENG 204 Introduction to Linguistics and EDU 495 Teaching of English as a Second Language: Methods and Materials.

MUSIC MINOR 20 hours

A music minor will consist of at least 20 semester hours in music subjects to be approved in advance by a music advisor, at least nine hours of which must not be used to satisfy other general-education or major requirements. Applied, historical, theoretical and performance areas are included in this program. Music minors are required to participate in either Symphonic Band (MUS 131), Women's Ensemble (MUS 115) or Concert Choir (MUS 111) for a minimum of four semesters. MUS 131, MUS 115 and MUS 111 may be repeated for credit.

Required courses		10 hours
MUS 101	Elementary Theory	3-0-3
MUS 102	Elementary Theory	3-0-3
MUS 247	Introduction to Music History and Related Literature	2-0-2
MUS 328	Conducting	2-0-2
Applied Lessons	4 hours (minor credit)	
Special Courses	6 hours selected from	
MUS 190	Instrumental Training	2-0-2
MUS 195	Voice Class	1-0-1
MUS 196/197	Class Piano	2-0-1
MUS 320	Musical Theatre	3-0-3
MUS 301	Form and Analysis	2-0-2
MUS 302	Composition and Arranging	3-0-3
MUS 346	Women in Music	3-0-3
MUS 348WI	Literature and History of Music II or	
MUS 349WI	Literature and History of Music III	3-0-3
MUS 355	World Music	2-0-2

APPLIED MUSIC REQUIREMENTS

For all music majors, two hours of credit per semester represent a one-hour-length lesson per week. A one-hour-length lesson per week may receive three hours' credit with permission of the instructor. Lessons for minor credit begin with 0. Individual practice time is required for lessons. A senior recital is required at the 400 level. For majors in music education and music with elective studies in business, a half-hour-length recital is required. For the Bachelor of Arts with a major in music, performance concentration, a 50-minute recital is required.

Major credit is established through individual examinations, called juries, held at the close of each semester by a committee of the music faculty and is based on performance standards and satisfactory progress.

In all applied music subjects, a fee for individual lessons is charged in addition to regular tuition. This fee is \$90 for a half-hour lesson per week (minor credit) and \$175 for a one-hour lesson per week.

Lessons for non-majors

One to two hours of credit each semester may be earned in any of the following areas: Winds and Percussion, Piano, Voice, and Guitar and Strings.

Lessons for majors

One to three hours of credit each semester may be earned in any of the following areas: Winds and Percussion, Piano, Voice, and Guitar and Strings.

COLLEGE MUSIC ORGANIZATIONS

All music majors are required to participate in either the college Concert Choir (MUS 111) or the Symphonic Band (MUS 131) throughout their period of study; music minors must participate for four semesters.

Students may repeat these courses for credit or may elect to participate through the zero-credit option to avoid overload charges.

Participation in the Berry Singers (MUS 121) is by audition. Students are encouraged to participate in Jazz Ensemble (MUS 141) and Chamber Music (MUS 132). Students on financial aid through music may be required to perform with these ensembles.

Theatre

Blackstone Hall Room 200 Telephone (706) 236-2258

The theatre department at Berry College champions the liberal-arts ideal. The department offers an intensive program designed to provide students with the academic and professional foundation essential to success in the field. The course of study includes offerings in performance (including dance), design and technical theatre, theatre history and criticism. Theatre and dance training in the liberal-arts tradition entails the

complementary activities of artistry and intellectual development. Since only the Bachelor of Arts degree is offered for theatre majors, all majors must complete the foreign-language requirement of that degree. Students master skills in all aspects of theatre as art, business and education. The curriculum is designed to immerse students in the scholarship as well as the practicalities of theatre. Frequent productions allow students to apply skills they learn in class. Internship opportunities, independent study and special seminars are offered by the faculty as well as guest artists and scholars.

The program is committed to

- broadening the consciousness of student artists and playgoers;
- preserving and fostering cultural achievements and aesthetic sensibility;
- developing the artistic maturity of students by stressing the virtues of collaboration, discipline, humility and tolerance;
- providing opportunities for self-expression and creative fulfillment; and
- collaborating with other artists and scholars in community, academic and professional settings.

The goals of the theatre major are

1. to acquaint students with the primary assumptions and critical principles of theatre-arts theory and practice;
2. to promote an understanding of the roles and contributions of the several collaborative artists responsible for theatre activity;
3. to promote a reading and performing knowledge of dramatic literature;
4. to develop students' appreciation of how the various components of theatre are orchestrated to produce an aesthetically satisfying experience and insight into the human condition;
5. to familiarize the student with the historical heritage of theatre; and
6. to generate new perceptions and skills relevant to an appreciation and practice of dramatic arts.

THEATRE MAJOR REQUIREMENTS 42 hours

Required Theatre Core		24 hours
THE 200	Theatre Practicum	3 hours
THE 208	Basics of Acting	2-2-3
THE 215	Introduction to Theatre	3-0-3
THE 221	Stagecraft	2-2-3
THE 261	Costuming and Makeup	2-2-3
THE 322WI	Script Interpretation	3-0-3
THE 341WI	History of Theatre	3-0-3
THE 450	Senior Project	3-0-3

Additional Courses Required

In addition to the theatre core, the theatre major must also take at least two courses from each of the three areas of theatre study listed below.

Theatre majors should not enroll in THE 201 Theatre Appreciation, a general-education course for non-majors only.

History/Criticism

THE 304WI	Introduction to Playwriting	3-0-3
THE 323	Modern and Contemporary Theatre	3-0-3
THE 401WI	Shakespeare	3-0-3

Performance

THE 207	Movement for the Stage	3-0-3
THE 209	Basics of Directing	2-2-3
THE 306	Modern Dance	3-0-3
THE 307	Choreography	3-0-3
THE 308	Intermediate Acting	2-2-3
THE 309	Advanced Directing	2-2-3

Technical/Design

THE 362	Period Style	3-0-3
THE 363	Costume Design	2-2-3
THE 365	Stage Design	2-2-3

Under no circumstances should any student enroll in both THE 201 Theatre Appreciation and THE 215 Introduction to Theatre. Undecided students with a strong interest in theatre should enroll in THE 215 and fulfill their fine-arts requirement with either ART 201, ART 202 or MUS 215.

THEATRE MINOR REQUIREMENTS 21 hours

THE 200	Theatre Practicum	3 hours
THE 208	Basics of Acting	2-2-3
THE 215	Introduction to Theatre	3-0-3
THE 221	Stagecraft or	
THE 261	Costuming and Makeup	2-2-3
THE 322	Script Interpretation	3-0-3
THE 341	History of Theatre	3-0-3

and one elective course.

Under no circumstances should students enroll in both THE 201 Theatre Appreciation and THE 215 Introduction to Theatre. Undecided students with a strong interest in theatre should enroll in THE 215 and fulfill their fine-arts requirement with either ART 201, ART 202 or MUS 215.

Dance Minor Requirements

21 hours

Required Courses

16 hours

HPE 144	Dance Improvisation	0-2-1
HPE 306	Survey of Rhythm and Dance	3-0-3
THE 170	Jazz and Tap Dance	2-0-2
THE 202	Dance Troupe	*0-3-1
THE 208	Basics of Acting	2-2-3
THE 306	Modern Dance	**3-0-3
THE 307	Choreography	**3-0-3

Choose five hours from:

HPE 123	Ballroom I	0-2-1
HPE 143	Ballroom II	0-2-1
HPE 308	Children's Creative Dance	3-0-3
MUS 215	Music Appreciation	3-0-3
MUS 355	World Music	2-0-2
THE 207	Movement for the Stage	3-0-3
THE 261	Costuming and Make-up	2-2-3

*Must be completed a minimum of two times

**Theatre majors with a performance emphasis seeking a dance minor may not use these courses as part of the major.

Foreign Languages

Faculty: Nichols Professor Grégoire; Associate Professors Anton, Corry, Llorente and Tate; Assistant Professor Slade; Evans Hall, Room 102 Telephone: (706) 236-2279; Fax: (706) 236-5091

The Department of Foreign Languages offers a variety of language, literature and cultural courses in French, German, and Spanish. The course of instruction emphasizes the development of communication skills. Majors and minors include courses in the analysis of cultural and literary works, as well as linguistic proficiency in professional areas such as business and education. Foreign language courses are open to all students as electives.

Foreign Language Placement Policy

Placement into Foreign Language classes is based upon Berry College placement test scores, previous experience with the language and, in some cases, individual consultation with Foreign Language faculty. All students who plan to enroll in a Foreign Language course are required to take the Berry College Foreign Language Placement Exam if they have taken any courses in that language in high school. Students will not be allowed to take a course below the indicated placement determined by the department. A student may petition the Chair of the Department of Foreign Languages to be enrolled in a course other than that initially indicated. Such a determination will be made after a more detailed evaluation of speaking, listening, reading and writing proficiency, which will be conducted by a Foreign Language faculty member.

Foreign Language Requirements for Students Earning a Bachelor of Arts Degree (non Foreign Language majors)

Students pursuing the Bachelor of Arts degree at Berry College must demonstrate intermediate-level ability in a modern foreign language. Students with previous experience in French, German, or Spanish will demonstrate proficiency in the following ways:

1. Successful completion of the 200-level course in the foreign language
2. Proficiency Testing
 - a. Testing out of the introductory language classes
 - i. The Department of Foreign Languages Placement Exam determines the class level at which students should begin their

- foreign language study. (Students who have completed 2 years of high school Spanish will not be placed in SPA 101.)
- b. Those students who have taken Advanced Placement courses in high school and scored a grade of 4 on the AP foreign language test will receive 4 credit hours for the 101 course. With a score of 5 on the AP test, students receive 8 credit hours for the 101 and 102 courses.
 3. Students who test out of both 101 and 102 (through either the Placement Exam or AP testing) begin their foreign language study at the 200-level course.
 - 4.

Foreign Language Requirements for Students Earning a Bachelor of Arts Degree (Foreign Language majors)

Majors in one of the foreign languages will take two additional courses of at least three credits each in a second foreign language (majors who can provide satisfactory evidence of competence in a second foreign language may appeal to the chair to have one or both of these courses waived), or three courses in the humanities approved by the major department, excluding courses counted toward the general-education requirements or additional courses in the major. Foreign language majors who complete a second major and/or an education minor are exempt from this requirement.

Study Abroad

Students who are majors or minors in a foreign language are strongly encouraged to participate in one or more of our study-abroad programs in France, Germany, Costa Rica, Mexico, Argentina and Spain.

FRENCH MAJOR: 22 hrs. at the 300-level and above

Required Courses:

Intermediate-level ability in French demonstrated by satisfactory completion of FRE 200 or by proficiency testing and

FRE 301	Advanced French Conversation or	3-1-3
FRE 303	Introduction to French and Francophone Literature	3-0-3
FRE 302	Advanced French Composition	3-0-3
FRE 401WI	French Literature Prior to 1800	3-0-3
FRE 402WI	French Literature of the 19th and 20th Centuries	3-0-3
FRE 406	Senior Project	1-0-1

Plus 9 hours of FRE electives, with at least 3 hours selected from 400 level courses.

GERMAN MAJOR: 21 hrs. at the 300-level and above

Required Courses:

Intermediate-level ability in German demonstrated by satisfactory completion of GER

200 or by proficiency testing and		
GER 301WI	Communication, Interpretation and Cultural Awareness I (advanced) or	3-1-3
GER 302WI	Communication, Interpretation and Cultural Awareness II (advanced) or	3-1-3
GER 303	Introduction to Major Works and Authors in German Literature	3-0-3
Plus 18 hours of GER electives, with at least nine hours selected from 400 level courses.		

SPANISH MAJOR: 27 hrs. at the 300-level and above

Required Courses:

Intermediate-level ability in Spanish demonstrated by satisfactory completion of SPA 200 or by proficiency testing and

SPA 300	Spanish in Context	3-1-3
SPA 301	Advanced Spanish Conversation or	3-1-3
SPA 324	Hispanic Culture	3-0-3
SPA 302WI	Advanced Spanish Composition or	3-0-3
SPA 307	Advanced Spanish Grammar	3-0-3
SPA 310	Survey of Peninsular Spanish Literature or	3-0-3
SPA 311	Survey of Spanish-American Literature	3-0-3
SPA 450	Senior Project	3-0-3

Majors who study abroad may use one of the 300-or 400- level classes they take abroad to fulfill the SPA 450: Senior Project requirement.

Of the remaining 12 hours of electives, nine are to be selected on the 400 level. Students may receive a maximum of eight credit hours based on their score on the placement test. If they are placed in 102 by examination, they may receive four credit hours for 101. If they are placed in 200 by examination, they may receive four credit hours for 101 and another four credit hours for 102.

Foreign-Language Teacher Certification

Teacher certification is available when majoring in a foreign language. Students wishing to pursue teacher certification should minor in education and select a member of the education faculty to serve as a second advisor.

The P-12 teaching certification in a foreign language requires the completion of one of the majors described above in addition to the completion of a minor in education including FLA 400. The education minor and FLA 400 will not count as part of the 22-hour (FRE), 21-hour (GER), or 27-hour (SPA) major requirements. SPA 307 is required as part of the 39-hour major requirements for teacher-education students in Spanish. Those seeking teaching certification must apply for acceptance in the teacher-education

program and complete successfully, the GACE examination in the language studied. A study-abroad experience is considered essential for those wishing to teach a foreign language.

FOREIGN-LANGUAGE MINOR

French Minor Requirements:

To earn a minor in French, a student must demonstrate intermediate-level ability in French by satisfactory completion of FRE 200 or by proficiency testing and complete 9 hours at or above the 300 level.

German Minor Requirements:

To earn a minor in German, a student must demonstrate intermediate-level ability in German by satisfactory completion of GER 200 or by proficiency testing and complete 9 hours at or above the 300 level.

Spanish Minor Requirements:

To earn a minor in Spanish, a student must demonstrate intermediate-level ability in Spanish by satisfactory completion of SPA 200 or by proficiency testing, and complete SPA 300 and 9 additional hours at or above the 300 level.

Government and International Studies

Faculty: Dana Professor Lawler, Gund Professor Singh; Associate Professors Bailey, Hickman and Taylor; Assistant Professor Sands
Evans Hall, Room 109B Telephone: (706) 236-2222

The curricula of the department of government and international studies offer opportunities for students to develop a sophisticated understanding of domestic and international political ideas, events, institutions and behavior. Majors in government and international studies become proficient in bodies of knowledge involving order, justice, ethics, leadership, representation, organization, competition and cooperation. The curricula prepare students for careers in government, law, international business and nongovernmental organizations (NGOs), and college-level teaching and research.

Government

Government majors may pursue either the Bachelor of Arts or the Bachelor of Science degree. It is strongly recommended that majors enroll in the methods course (GOV 393WI) in their sophomore or junior year and that MAT 111 be taken before enrolling in GOV 393WI. Government majors pursuing the Bachelor of Science degree are required to take Elementary Statistics (MAT 111), plus an additional course in computer science, -mathematics or economics. Note that government majors pursuing the Bachelor of Arts

degree must complete the foreign-language requirement for that degree. Specific departmental requirements for government majors and minors in addition to the general-education requirements are listed below.

GOVERNMENT MAJOR: 39 hours

Majors must complete the following courses:

GOV 207	Contemporary World Issues	3-0-3
GOV 211	American National Government	3-0-3
GOV 217	Introduction to Comparative Politics	3-0-3
GOV 318	Ancient Political Philosophy	3-0-3
GOV 321WI	International Relations	3-0-3
GOV 393WI	Social-Science Research Methods	3-0-3
GOV 406	Senior Project	3-0-3
plus 18 hours of government electives		

GOVERNMENT MINOR: 18 hours

Minors must complete the following courses:

GOV 207	Contemporary World Issues or	
GOV 211	American National Government	3-0-3
GOV 217	Introduction to Comparative Politics	3-0-3
GOV 321WI	International Relations or	
GOV 318	Ancient Political Philosophy	3-0-3
plus 9 hours of government electives		

Students must meet residency requirements in both major and minor as listed on pages 40 – 41, item 7. Teacher certification is available in government. Students wishing to pursue teacher certification should minor in education and select a member of the education faculty to serve as a second advisor.

International Studies

International Studies is a flexible major, offered only as a Bachelor of Arts degree program, that prepares students for careers in government, law, international business and nongovernmental organizations (NGOs), and college-level teaching. In addition, all international studies majors are encouraged to participate in the college’s study-abroad program. Majors in international studies may not claim a minor in any of the fields, except foreign language, taken to satisfy the major requirements.

Students majoring in international studies are required to take Elementary Statistics (MAT 111). It is strongly recommended that MAT 111 be taken prior to enrolling in the methods course (GOV 393WI). A minor in international studies is available to all students, provided that students complete the minimum foreign-language requirement for the B.A. degree. Specific departmental requirements for international-studies majors and minors in addition to the general-education requirements are listed below.

INTERNATIONAL STUDIES MAJOR: 39 hours

Majors must complete 24 hours in International Relations Core:

GOV 207	Contemporary World Issues	3-0-3
GOV 211	American National Government	3-0-3
GOV 217	Introduction to Comparative Politics	3-0-3
GOV 319	Modern Political Philosophy	3-0-3
GOV 321WI	International Relations	3-0-3
GOV 393WI	Social-Science Research Methods	3-0-3
GOV 406	Senior Project	3-0-3
GOV 435WI	Foreign-Policy Analysis	3-0-3

and complete 15 credit hours chosen from:

GOV 231	Model United Nations	1 to 3 hours
GOV 320	Comparative Politics of Western Europe	3-0-3
GOV 323	Revolution and Political Violence	3-0-3
GOV 333	American Political Development <i>or</i>	3-0-3
GOV 338WI	Presidency and Congress	3-0-3
GOV 339WI	Politics and History of Russia	3-0-3
GOV 343WI	Comparative Politics of South Asia	3-0-3
GOV 344WI	Politics and History of East Asia	3-0-3
GOV 358	Politics of Latin America	3-0-3
GOV 410	Conflict and Cooperation in World Politics	3-0-3
GOV 411	International Law and Organizations	3-0-3
GOV 421	International Relations Theory	3-0-3
HIS 445	History of American Diplomacy	3-0-3

INTERNATIONAL STUDIES MINOR

Required Courses:		18 hours
GOV 207	Contemporary World Issues	3-0-3
GOV 217	Introduction to Comparative Politics	3-0-3
GOV 321WI	International Relations	3-0-3
	plus three upper-division electives (9 hours) from any one of the four concentrations and 12 hours (101, 102, 200) in one foreign language.	

History

Faculty: Professor Atkins; Associate Professors Marvin and Snider; Assistant Professor Stanard; Evans Hall, Room 109B Telephone: (706) 236-2222

A major in history is useful to students interested in a career in law, education, writing, the ministry, business, government, library and archival work, or historic restoration. The study of history is also of value to those who are anxious to receive a liberal-arts background to pursue other career options. A wide variety of courses in American, European and world history will allow each student to shape his or her intellectual development and to enhance various critical and creative thinking skills necessary for personal and professional success.

HISTORY MAJOR: 36 hours

Required History

Courses:

HIS 154	World History to 1550	3-0-3
HIS 155	World History Since 1550	3-0-3
HIS 205	American History to 1877	3-0-3
HIS 206	American History Since 1877	3-0-3
HIS 491WI	Historiography	3-0-3

plus an additional 21 hours of history electives, including 9 hours of upper-division (300-400 level) courses in American history, and 9 hours of upper-division courses in European and/or world history.

Teacher certification is available in history. Students wishing to pursue teacher certification should minor in education and select a member of the education faculty to serve as a second advisor.

History majors who desire teacher certification must complete the professional education sequence and earn credit for at least one upper-division course that emphasizes non-Western history, plus 12 additional hours chosen from anthropology, economics, government and international studies, psychology and sociology. These courses may also be used to satisfy up to three general-education courses.

The Bachelor of Arts degree is awarded to students majoring in history upon completion of all degree requirements.

HISTORY MINOR: 18 hours

Students must complete at least two of the following:

HIS 154	World History to 1550	3-0-3
HIS 155	World History Since 1550	3-0-3
HIS 205	American History to 1877	3-0-3
HIS 206	American History Since 1877	3-0-3

plus 12 hours of history electives, at least nine hours of which must be at the 300-400 level.

Interdisciplinary Minors and Certificate Program

Several interdisciplinary minors are available through the Evans School of Humanities, Arts and Social Sciences and in collaboration with the other schools at Berry College. (See also visual communication minor in the communication department and the writing minor in the English department.)

A certificate in Latin American and Caribbean studies is also available. Courses involved in obtaining this certificate are designed to help provide an undergraduate, interdisciplinary background for students interested in careers or further study that may involve the peoples and societies of Latin America and the Caribbean.

Film Studies Minor

Faculty: Professor Trolander; Associate Professors Anton, Bucher and Countryman; Assistant Professor Mejia; Evans 230 Telephone: (706) 233-4076

The minor in film is interdisciplinary and is not administered through a specific academic department. Its faculty are drawn from disciplines throughout the humanities, the arts and the social sciences. The minor has been designed to reflect the recent explosion of scholarly interest in film, as well as the diverse cultural responses to the medium. While the aesthetic appreciation of the medium is the minor's point of departure, the student can expect to take courses emphasizing film as a document of social history or as a research tool for examining differences in culture.

Students in film will acquire skills for its formal and semiotic analysis, as well as an appreciation for its incredibly rich historical development. Minors will also come to see cinema as a significant historical force in its own right. Students can expect to take courses that range from historical surveys to surveys of particular film genres, from courses that focus on a specific director to courses in cinematic adaptation of literary genres.

The minor in film is appropriate for anyone wishing to gain an in-depth appreciation of a medium that pervades the modern psyche and popular imagination. It is particularly useful to those students whose major interests are in film or video production, media studies, English or foreign literatures, theatre, music and history. Directed readings that treat specific directors, national cinemas, cinematic genres or special projects can be arranged.

Students who initiate course work in their sophomore year can complete the minor by graduation. Students interested in the minor should contact one of the faculty listed above.

FILM STUDIES MINOR: 18 hours

FLM 210	Introduction to Film	3-0-3
FLM 301	Film as History	3-0-3
FLM 350	Topics in the History of Film	3-0-3
FLM 418	Special Topics in Film	3-0-3

Students minoring in film must also complete an additional six hours in FLM 350 and/or FLM 418.

Legal Studies Minor

Faculty: Professor Lawler; Associate Professors Bailey, Carroll, Frank, Papazian and Stephenson; Assistant Professor Baker; Green Hall 413 Telephone: (706) 238-7878 The

Legal Studies minor is an interdisciplinary curriculum focusing on law and the American legal system. Courses available include broad overviews of business and constitutional law, surveys of the law's economic efficiency and philosophical underpinnings, and

intensive examinations of specific legal areas.

Students interested in the minor should consult with one of the faculty members. Careful planning of course selection is necessary, as some courses are offered only once every two years.

LEGAL STUDIES MINOR: 18 hours

Choose six courses from the following:

BUS 210	Legal Environment of Business	3-0-3
BUS 411	Advanced Business Law	3-0-3
COM 416WI	Mass Communication Law	3-0-3
ECO 460	Economic Analysis of Law	3-0-3
GOV 319	Modern Political Philosophy	3-0-3
GOV/SOC/WNS 387	Gender, Law and Society	3-0-3
GOV 411	International Law and Organizations	3-0-3
GOV 417	Constitutional Law: American Political Institutions	3-0-3
GOV 418	Constitutional Law: Civil Liberties and Civil Rights	3-0-3
PHI 350	Philosophy of Law	3-0-3
REL 330	Church and State	3-0-3
SOC 320	Criminology	3-0-3

Women's Studies Minor

Faculty: Professors Granrose and McKenzie; Associate Professors Bucher, Countryman, Ference, Hill, Johnson, Lidke, Logsdon-Conradsen, Snider, Troy and Whelan; Assistant Professors Allred and Baker; Cook 337 Telephone: (706) 236-5494

As young men and women enter the twenty-first century, they encounter an entirely new, historically unprecedented set of gender relations. Over the course of the twentieth century, women have increasingly entered the public sphere of work, politics and cultural production, and their position within the private, domestic sphere has changed accordingly. Given this radical revision of the position of women in all aspects of Western culture, it is appropriate for students to explore the causes of this gender revolution, to examine its effects in the present and to analyze the future possibilities for harmonious adjustment to it. The minor in women's studies is designed to facilitate these goals, as well as to increase students' awareness of the impact of changing gender roles on their major fields of study.

The minor in women's studies requires the successful completion of 18 credit hours. Students are urged to complete WNS 210 Introduction to Women's Studies as early in their minor program as possible.

WOMEN'S STUDIES MINOR: 18 hours

Students must complete:

WNS 210	Introduction to Women's Studies	3-0-3
WNS 412	Women's Studies Seminar	3-0-3
	And four courses chosen from the following:	
ANT 320	Women in Global Perspective	3-0-3
ART 413WI	Women and Art	3-0-3
BUS 212	Gender and Business	3-0-3
COM 418	Gender and Media	3-0-3
EDU 409	Gender and Education	3-0-3
ENG 432	Studies in Southern Literature - Southern Women Writers*	3-0-3
ENG 342	Women's Literature	3-0-3
ENG 434	Gender and Language	3-0-3
FLM 418	Women Directors*	3-0-3
GOV 350	Women and Politics	3-0-3
HIS 375WI	U.S. Women's History	3-0-3
MUS 346	Women in Music	3-0-3
PSY 303	Health Psychology in Sociocultural Context*	3-0-3
PSY 385WI	Psychology of Women	3-0-3
REL 320	Biblical Women	3-0-3
REL 326	Goddess Tradition of Asia*	3-0-3
REL 331	Christian Faith and Feminist Critique	3-0-3
REL 382	Women in World Religions	3-0-3
SOC 335	Social Inequality; Race, Class and Gender	3-0-3
THE 228	Women and Drama*	3-0-3
WNS 344	Special Topics in Women's Studies	3-0-3
WNS 387	Gender, Law and Society	3-0-3
WNS 496	Academic Internship	1 to 3 hours
WNS 498	Directed Study	1 to 3 hours

*These courses will only count for the minor when taught with the specific title shown.

Certificate in Latin American and Caribbean Studies

Faculty: Assistant Professor Slade; Evans 206A Telephone: (706) 233-4081 E-mail: dslade@berry.edu

The Latin American and Caribbean Studies program offers Berry students the opportunity to explore one of the world's most diverse and fascinating regions. Latino immigration to the United States and the increasing importance of Latin America in the global economy mean that there is a growing need for persons with the skills necessary for communicating effectively with people from this region. Students certified in Latin American and Caribbean Studies, therefore, are at an advantage in nearly any job pool.

They are at a special advantage when competing for positions in companies with business interests in Latin America; health care and social work professionals; journalism; federal and state government careers; graduate programs in the social sciences; professional degree programs in fields such as public policy, public health, social work and business; and education, from elementary grades through higher education.

In order to earn a Certificate in Latin American and Caribbean Studies, students must complete 12 hours of coursework, including the LCS gateway course, “Peoples of Latin America and the Caribbean” (LCS 301). Additional hours may be completed by taking selected courses from a wide array of disciplines, including the sciences, the social sciences, the humanities, education and business. Students must also demonstrate intermediate-level proficiency in Spanish, French or Portuguese. This requirement may be fulfilled either by passing a 200-level language course or by passing a language competency exam.

Students earning the LCS Certificate are strongly encouraged to study abroad in a Latin American or Caribbean country and/or carry out a LCS-related internship, either locally or abroad.

Students interested in earning a Certificate in Latin American and Caribbean Studies should consult and contact the LCS program director for more information and an application form.

CERTIFICATE REQUIREMENTS: 12 hours

LCS 301	Peoples of Latin America and the Caribbean	3-0-3
	Students must complete 9 hours chosen from among the following:	
LCS/SOC 310	Latinos in the United States	3-0-3
ART 330WI	Pre-Columbian and Latin American Art	3-0-3
BIO 482	Coral Reef Ecology*	2-4-4
BIO 483	Tropical Biodiversity and Conservation*	2-4-4
EDU 222	Exploration in Diverse Cultures (LAC sites only)	1-4-3
GOV 358	Politics of Latin America	3-0-3
HIS 358	Latin American History	3-0-3
LCS 450	Seminar in Latin American and Caribbean Studies	3-0-3
LCS 496	Academic Internship	3 to 6 hours
LCS 498	Directed Study	1 to 3 hours
SPA 311	Survey of Spanish-American Literature	3-0-3
SPA 324	Hispanic Culture	3-0-3
SPA 403	Contemporary Spanish-American Literature	3-0-3

**With permission of the director,
students may also choose from among
the following courses:**

ANT 380	Applying Anthropology	3-0-3
BUS 410	International Business	3-0-3
ENG 332	Postcolonial Literature	3-0-3
SPA 404WI	Spanish Business Communication	3-0-3
SPA 405	Topics in Spanish	3-0-3
	*Limited to Latin American and Caribbean sites only	

Religion and Philosophy

Faculty: Professors Kennedy and McKenzie; Associate Professors Hill, Lidke, and Papazian; Evans Hall, Room 102 Telephone: (706) 236-2279

Courses in religion and philosophy demand rigorous study and willingness to examine objectively and sympathetically various religious and philosophical viewpoints. The objective of the study of religion and philosophy is to enable students to gain a greater understanding of their own heritage and outlook and the heritage and outlook of others.

The department offers a major in religion and philosophy with a concentration in either area; a dual concentration in religion and philosophy; a minor in religion; and a minor in philosophy.

It also offers the opportunity to structure a strong interdisciplinary major with philosophy or religion as the core. See the section on Interdisciplinary Studies.

A major in religion and philosophy consists of 36 semester hours, including the 3-hour general-education requirement. Since religion and philosophy majors earn the Bachelor of Arts degree, they must meet the foreign-language requirements of that degree.

The combined religion and philosophy major can provide a strong liberal arts concentration. This major prepares students for theological seminary; law or business schools; or graduate work in religion, philosophy and other fields in the humanities.

RELIGION AND PHILOSOPHY MAJOR (CONCENTRATION IN PHILOSOPHY): 36 hours

Students are required to take:

REL 425WI	Senior Thesis	3-0-3
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And one course from each of the following areas:

The Christian Tradition	REL 101, 102, 103, 305WI or 320
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World Religions	REL 100, 326, 372 or 382
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Ethics	REL 107, 358, 359WI or 375WI
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plus six additional courses in religion, at least five of which must be at the 300 or 400 level, and two courses in philosophy.

RELIGION AND PHILOSOPHY MAJOR (CONCENTRATION IN PHILOSOPHY): 36 hours

Students are required to take:

PHI 150	Introduction to Philosophy	3-0-3
PHI 152	Critical Thinking or	
PHI 353	Symbolic Logic	3-0-3
PHI 351	Ancient and Medieval Philosophy	3-0-3
PHI 352	Early Modern Philosophy	3-0-3
PHI 425WI	Senior Thesis	3-0-3

plus five additional courses in philosophy and two courses in religion.

RELIGION AND PHILOSOPHY MAJOR (DUAL CONCENTRATION): at least 63 hours

Students must complete the specific requirements for the concentration in religion and the concentration in philosophy, including elective courses. Up to six hours of the same course work may count toward the requirements for both the religion and the philosophy concentration. However, students with the dual concentration are only required to complete REL/PHI 425 once.

MINOR IN RELIGION: 21 hours

REL 100	World Religions or	
REL 101	Interpreting the Old Testament or	
REL 102	Interpreting the New Testament	3-0-3
plus one course in philosophy and five additional courses in religion, at least three of which must be at the upper level.		18 hours

MINOR IN PHILOSOPHY: 21 hours

PHI 150	Introduction to Philosophy or	
PHI 152	Critical Thinking	3-0-3
plus one course in religion and five additional courses in philosophy, at least three of which must be at the upper level.		18 hours

Sociology and Anthropology

Faculty: Associate Professors Lewinson and McConkey; Assistant Professors Allred, Baker, Knowlton, and Sundblad
Evans Hall, Room 109B Telephone: (706) 236-2222; Fax: (706) 236-2205

Sociology and anthropology develop our understanding of what it means to be human by exploring the differences and similarities within and between cultures and societies. These disciplines study the organization of groups as well as the experiences and values of their members. They give insight into human belief and behavior in groups ranging from a small community organization to a large multicultural society. Through hands-on activities, students learn how to conduct ethnographic research, data analysis, and

community-based research, as well as improve their writing and critical thinking. These skills enable our majors to understand, work with, and train those who will work with people from many backgrounds. After graduation, majors are prepared to work in fields such as social work, business, education, missions, human relations, museums and cultural heritage, public health, the non-profit sector, environmental advocacy, law enforcement, and government. Others continue their education in graduate programs at leading universities. A sociology and anthropology degree also helps prepare students going on to professional programs in law, medicine, public health, and urban planning, among others.

Sociology and anthropology majors may pursue either a Bachelor of Arts or Bachelor of Science degree. Students pursuing a Bachelor of Arts degree must complete the foreign-language requirements for that degree. Students pursuing a Bachelor of Science degree must successfully complete a minimum of six courses that fulfill the quantitative course requirements for the B.S. degree. Though not required, Bachelor of Science majors are strongly encouraged to take at least eight hours of a foreign language as well.

SOCIOLOGY AND ANTHROPOLOGY MAJOR: 39 hours

The sociology and anthropology major includes nine hours of Level 1 core courses, six hours of Level 2 core courses, 12 hours of Level 3 courses (in area/s of concentration), three hours of Level 4 course work (Senior Project), and an additional nine hours of electives within the major.

Majors may choose one of two concentrations—sociology or anthropology. Alternatively, majors may elect to have a dual concentration in both sociology and anthropology. A concentration in sociology consists of 12 hours of Level 3 SOC courses. A concentration in anthropology consists of 12 hours of Level 3 ANT courses. Students who choose to have a dual concentration must complete both 12 hours of Level 3 SOC courses and 12 hours of LEVEL 3 ANT courses in addition to the core courses, electives and Senior Project.

Ideally, students should progress through the following sequence of courses chronologically, taking Level 1 courses first and finishing with the Level 4 course. However, students may take Level 2 and Level 3 courses concurrently.

Level 1 Core Courses 9 hours

The following must be taken by all sociology and anthropology majors:

ANT 200	Cultural Anthropology	3-0-3
MAT 111	Elementary Statistics	3-0-3
SOC 200	Introduction to Sociology	3-0-3

Level 2 Core Courses 6 hours

The following must be taken by all sociology and anthropology majors:

SOC or ANT 300WI	Social Theory	3-0-3
SOC or ANT 305WI	Social-Science Research Methods	3-0-3

Level 3 Courses for the Sociology Concentration:

To earn a concentration in sociology, students must complete four of the following:

SOC 225	Social Problems	3-0-3
SOC 310	Latinos in the United States	3-0-3
SOC 320	Criminology	3-0-3
SOC 335	Social Inequality: Race, Class and Gender	3-0-3
SOC 345	Sociology of Health	3-0-3
SOC 350	Sociology of the Family	3-0-3
SOC 355	Environmental Sociology	3-0-3
SOC 370	Sociology of Religion	3-0-3
SOC 387	Gender, Law and Society	3-0-3
SOC 450	Seminar in Sociology	3-0-3
SOC 496	Academic Internship	3 to 6 hours
SOC 498	Directed Study	1 to 3 hours

Level 3 Courses for the Anthropology Concentration:

To earn a concentration in anthropology, students must complete four of the following:

ANT 301	Peoples of Latin America and the Caribbean	3-0-3
ANT 320	Women in Global Perspective	3-0-3
ANT 325	Anthropology of Popular Culture	3-0-3
ANT 330	Anthropology of the Body	3-0-3
ANT 340	Globalization and Local Communities	3-0-3
ANT 350	African Cultures	3-0-3
ANT 380	Applying Anthropology	3-0-3
ANT 390	Urban Anthropology	3-0-3
ANT 450	Seminar in Anthropology	3-0-3
ANT 496	Academic Internship	3 to 6 hours
ANT 498	Directed Study	1 to 3 hours

Level 4 Courses 3 hours

One of the following two courses must be completed by all sociology and anthropology majors, depending on concentration:

ANT or SOC 480WI	Senior Project	3-0-3
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Electives 9 hours

Majors must also complete nine additional hours of SOC or ANT courses, or courses in other disciplines approved by the department. (Please see your advisor or the department chair for a list of these courses.) These courses may not count toward the major's area of concentration.

SOCIOLOGY MINOR REQUIREMENTS 18 hours

To earn a minor in sociology, students must complete the following:

SOC 200	Introduction to Sociology	3-0-3
ANT 200	Cultural Anthropology	3-0-3

and 12 additional hours of sociology courses, nine of which must be at the 300 level or above.

ANTHROPOLOGY MINOR REQUIREMENTS 18 hours

To earn a minor in anthropology, students must complete the following:

ANT 200	Cultural Anthropology	3-0-3
SOC 200	Introduction to Sociology	3-0-3

and 12 additional hours of anthropology courses, nine of which must be at the 300 level or above. One of the following courses may be substituted for a single anthropology course: SOC 335 or SOC 355.

School of Mathematical and Natural Sciences

Dean: D. Bruce Conn, Science Center, Room 301 Telephone: (706) 236-1756 FAX: (706) 238-7855 E-mail: mans@berry.edu

The School of Mathematical and Natural Sciences offers eight majors, seven minors and two dual-degree programs. All graduates receive a Bachelor of Science degree.

Majors

Animal Science
Biology
Chemistry
Biochemistry
Computer Science
Environmental Sciences
 Biology concentration
 Chemistry concentration
 Geoscience concentration
 Public Policy concentration
Mathematics
 Mathematics Education
Physics

Minors

Animal Science
Biology
Chemistry
Computer Science
Geology
Mathematics
Physics

Dual-Degree Programs

Engineering
Nursing

The School of Mathematical and Natural Sciences is composed of the departments of animal science, biology, chemistry, mathematics and computer science, and physics, astronomy and geology. Throughout the school, an emphasis on inquiry, research and problem solving guides the curriculum and classroom practice. The school strives to provide for all Berry students opportunities to gain an appreciation for scientific thought and methods, and logical and mathematical reasoning. For students who seek greater experience in these areas, there are opportunities for mastery of the content in one or more disciplines, for experiential learning in laboratories and field study, and for the development of a desirable work ethic.

Animal Science

Professor Gallagher; Associate Professor Wilson; Assistant Professors Daniel, Fincham, and Kitts; Senior Lecturer Goldberg
Westcott Building, Room 203 Telephone: (706) 236-1737 FAX: (706) 236-2223

The department of animal science provides students with a firm foundation in the biological and natural sciences as they relate to animal science in preparation for meaningful, rewarding and challenging animal-related professions. The program is based on high academic standards. This department emphasizes student-centered learning as

demonstrated by the laboratories that are associated with the classes. There also is the opportunity to work in one of the three animal teaching/research units on campus as well as to participate in undergraduate research. The department supports and actively engages in community service projects.

Animal Science Majors

The animal-science curriculum is designed for students interested in professional careers in animal-related industries. Completion of the animal-science program prepares students to pursue careers encompassing all aspects of the vast field of livestock production and management as well as related service industries.

The curriculum is designed with sufficient flexibility to provide ample preparation for postgraduate studies and research. Students are encouraged to complete specific courses within their areas of interest to enhance their knowledge and future success in a graduate program. Undergraduate students also have the opportunity to conduct and present research with faculty members in the department.

A curriculum is available for students planning to apply for admission into a college of veterinary medicine. The program requirements are similar to those of the animal-science major. However, additional science courses must be completed in accordance with admission policies of colleges of veterinary medicine.

Requirements 40 - 44 hours

ANS 120	Introduction to Animal Science	3-2-4
ANS 200	Livestock Feeding and Ration Formulation	3-2-4
ANS 322WI	Principles of Nutrition	3-0-3
ANS 324	Genetics of Livestock Improvement	3-2-4
ANS 326	Anatomy and Physiology	3-2-4
ANS 327	Reproductive Physiology	3-2-4
ANS 421WI	Animal Health and Diseases	3-2-4
ANS 491	Seminar	1-0-1
	and select four from	
ANS 323	Forage Production	3-2-4
ANS 330	Comparative Exercise Physiology	3-0-3
ANS 331	Equine Evaluation	3-2-4
ANS 332	Companion Animal Science	3-2-4
ANS 422WI	Beef Systems and Management	3-2-4
ANS 423	Dairy Systems and Management	3-2-4
ANS 424	Horse Systems and Management	3-2-4
ANS 425	Swine and Poultry Systems and Management	3-0-3
ANS 426	Sheep Systems and Management	3-2-4
ANS 429WI	Behavior of Domestic Animals	3-2-4
ANS 433	Neural, Muscular and Renal Physiology	3-0-3
ANS 434	Cardiovascular, Pulmonary and Hepatic Physiology	3-0-3

Additional Requirements:

BIO 111	Principles of Cell Biology	3-2-4
BIO 202	Principles of Zoology	3-2-4
CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
MAT 120	Precalculus or	4-0-4
MAT 201	Calculus or higher-level math	4-0-4

Animal science majors who choose to minor in chemistry will be exempt from the major requirements of completing CHM 108, 109 and 221.

Animal Science Minor

Requirements: 18 hours in courses with ANS prefix. Nine hours in courses numbered 300 or above must be taken in residence at Berry.

Biology

Professors Cipollini, and Conn; Reid Professor Graham; Associate Professors Davin, Hall, Morgan and Mowry; Assistant Professors Borer and Carleton; Lecturer Orloff
Science Center, Room 366B Telephone: (706) 236-1712 FAX: (706) 238-7855

Courses leading to a degree in biology are taken by students pursuing careers in research, teaching and an array of professional vocations. Ecology, medical technology, genetics, paleontology, biotechnology, marine biology, optometry, medicine, veterinary medicine and dentistry are but a few specific fields chosen by the successful biology major. Almost all graduate schools and professional institutions require specific national entrance tests, and the majority of students pursuing advanced degrees or professional training will take either the Graduate Record Examination (GRE), the Medical College Admission Test (MCAT), the Veterinary College Admission Test (VCAT) or the Dental Admission Test (DAT). Because these tests include a significant biological component, the department has designed its introductory curriculum in part to reflect this coverage.

Individual programs, concentrating study in a particular area and including an internship or extended study at another institution or laboratory, such as marine biology, are available with appropriate administrative consent.

Research opportunities in biology are available through the student work program and BIO 498 (Directed Study), and cooperative projects can be arranged with other departments. Highly motivated seniors with an overall grade point average of 3.3 or better may choose to enroll in BIO 499, Senior Thesis, and conduct an original research project with a mentor of their choice. The department sponsors activities through the Biology Club, Sigma Xi and the Tau Alpha Chapter of Tri-Beta, a national biology honor society.

Biology Major Requirements

The program in biology requires a core of 21 semester hours of course work, as follows:

BIO 111	Principles of Cell Biology	3-2-4
BIO 202	Principles of Zoology	3-2-4
BIO 204	Genetics	3-3-4
BIO 215	Principles of Microbiology and Botany	3-2-4
BIO 305	General Ecology	3-3-4
BIO 490	Seminar in Biology	1-0-1

All students majoring in biology must take five additional elective biology courses at the 200 level or above (at least 19 semester hours). Fifteen hours numbered 300 and above must be taken in residence. Within this block of courses students may select those sub disciplines that best suit their needs.

A number of courses in marine biology are offered through the Gulf Coast Research Laboratory (GCRL), Ocean Springs, Mississippi, (www.usm.edu/gcrl) during the summer term. Students may register for the courses as a transient and up to two courses taken at GCRL will count as electives toward a major in biology.

The Berry College biology department is also affiliated with the Highlands Biological Station (www.wcu.edu/hbs/). One of these courses can count as a biology elective, with departmental approval.

Additional Science and Mathematics Requirements

Concentration I is for students planning to attend graduate or professional school in biology or the health sciences. In addition to the biology core and biology elective courses, students pursuing Concentration I must also complete:

Chemistry	16 hours at the CHM 108 level or above. Chemistry minors are exempt from this requirement.
Mathematics	7 hours minimum (MAT 111 Statistics required, MAT 201 strongly encouraged.)
Physics	4 hours (PHY 111 or PHY 211 required; PHY 112 or 212 strongly encouraged.)

Concentration II is for students who have interests other than graduate or professional school in biology or the health sciences (i.e. secondary education, science journalism, double majors, business minors). In addition to the biology core and biology elective courses, students pursuing Concentration II must also complete:

Chemistry: 4 hours at the CHM 108 level or higher. Chemistry minors are exempt from this requirement.

Math and Science Electives: Five courses taken from ANS, AST, BIO, CHM, EVS, GEO, MAT or PHY. Only one of these electives may be chosen from the following: ANS 105, BIO 103, BIO 105, BIO 106, BIO 108 or PHY 101. Students may not use CHM 102 for this elective credit. BIO 103 may not be used as the math and science elective credit if the major has first completed BIO 111. In addition, at least two of these courses must be

non-BIO courses. Students having a minor in secondary education may substitute EDU 499 for one of the science electives.

Biology Minor

A minor in biology requires 19-20 hours, as follows:

BIO 111	Principles of Cell Biology	3-2-4
BIO 202	Principles of Zoology	3-2-4
BIO 215	Principles of Microbiology and Botany	3-2-4
	One of the following courses:	
BIO 204	Genetics	3-3-4
BIO 305	General Ecology	3-3-4
	Plus one additional biology course at the 200 level or above.	

Requirements for Teacher Certification in Secondary-School Science

Students planning to become certified to teach biology in Georgia public secondary schools must complete a major in biology and a minor in education. One course in microbiology, one course in plant biology, and one course in ethics should be successfully completed to meet the National Science Standards for certification in teaching biology. Such courses include BIO 301, Microbiology; BIO 311WI, General Botany; or BIO 313WI, Forest Ecology; and PHI 358, Bioethics or PHI 359WI, Environmental Ethics. Other recommended courses include BIO 206, 303, 332WI, 341, 415, 482 and 483, and EVS 104. The student must be assigned an advisor in education in addition to her or his biology advisor.

Requirements for Dual-Degree Nursing Program

Berry College and Nell Woodruff School of Nursing, Emory University

Communication:

COM 203	Introduction to Speech	3-0-3
ENG 101	First-Year Seminar in Rhetoric and Writing	3-0-3
ENG 102	First-Year Seminar in Critical Inquiry and Writing	3-0-3

Health and Physical Education:

HPE	Activity	0-2-1
HPE	Activity	0-2-1
HPE 220	First Aid or	2-0-1
HPE 221	Survey of Fitness or	0-2-1
HPE 222	College Health Topics	2-0-1

Behavioral Science:

The courses listed below are required by the Nell Woodruff School of Nursing at Emory and will satisfy the behavioral-science component of Berry’s general education requirement.

ECO 110	Principles of Economics I	3-0-3
PSY 101	Introduction to Psychology	3-0-3

SOC 200	Introduction to Sociology	3-0-3
Humanities:	Choose five courses, one from each of the four areas, plus HUM 200 or a fifth course from any of the four areas to be counted as a Humanities elective.	
Literature	(Choose any 200-level course)	3-0-3
History	(Choose one: HIS 154, 155, 205 or 206)	3-0-3
Fine Arts	(Choose one: ART 201, ART 202, MUS 215) Woodruff specifies music or art appreciation.	3-0-3
Religion/Philosophy	(Choose any 100-level Course)	3-0-3
Other Berry Requirements:		
BCC 099	Library Skills or	
BCC 100	Freshman Seminar	1-0-1
Cultural Events:	Average of three for each semester of full-time enrollment at Berry.	
Mathematics:		
MAT 111	Elementary Statistics Elementary Statistics is required by the Nell Woodruff School and will satisfy Berry's general education mathematics requirement.	3-0-3
Natural Sciences:		
BIO 111	Principles of Cell Biology	3-2-4
CHM 108	General Chemistry I These science courses will satisfy Berry's general education requirement and are required by the Nell Woodruff School.	3-3-4
Electives Outside Major/Minor:	Two three-hour courses.	
BIO 206	Human Anatomy and Physiology I*	3-2-4
PSY 221WI	Life-Span Developmental Psychology* *These courses are required by the Nell Woodruff School and will satisfy the electives outside the major or minor for Berry's general educational requirements.	3-0-3
Additional Requirements for the Nell Woodruff School:		
BIO 207	Human Anatomy and Physiology II	3-2-4
BIO 301	Microbiology	2-4-4
CHM 109	General Chemistry II	3-3-4

Information from Nell Woodruff Checklist:

Electives: Additional courses approved by the nursing faculty must combine with the above prerequisites (course specified by Emory) to equal at least 60 semester hours. Students are encouraged to take electives in the social sciences and humanities. Credit for biochemistry, pharmacology, physical education, applied art or music is not applicable in meeting general education requirements.

Berry Requirement:

Complete 93 hours at Berry or three-fourths of the program. This may include hours transferred to Berry College from other institutions, but a minimum of 62 hours must be completed in residence at Berry.

Berry Writing Requirement:

Students must complete two “writing-intensive” courses totaling a minimum of six semester hours. One of these may be at the 200 level; the other must be at the 300- or 400 level.

Chemistry and Biochemistry

Professor Breton; Dana Professor Earnest; Associate Professors Bressette and Martin; Assistant Professors Harper and Hoke
Science Center, Room 305 Telephone: (706) 238-5856 FAX: (706) 238-7855

Chemistry is a molecular science. Modern chemistry is a broadly diverse science that is positioned at the interface of physics, biology and mathematics. The curriculum, which is one of only 13 chemistry programs in Georgia accredited by the American Chemical Society (ACS), combines a solid background in fundamental principles of chemistry with firsthand experiences using state-of-the-art laboratory equipment. Because of chemistry's centrality in the sciences, the chemistry and biochemistry majors are an excellent choice for those interested in a diverse range of careers, including medicine, dentistry, engineering, pharmacy, teaching or as a research scientist for government and industry. Students are highly encouraged to engage in research opportunities in a variety of chemical fields within the department through CHM 498. Students involved in research regularly travel to regional and national conferences with faculty members to present their research results, and many have had their research published in scholarly journals. Summer research opportunities both on and off campus are also available. The department sponsors activities on and off campus through the student-affiliate club, which has received honors and commendations from the American Chemical Society in recent years.

Objectives for Major

The Chemistry and Biochemistry Bachelor of Science degrees prepare students for a wide

variety of science-related careers. A sampling of these careers are provided on the Chemistry Department webpage under “Careers”. Majors have the option of obtaining a B.S degree certified by the American Chemical Society (ACS). While the ACS certified degree is intended primarily for those majors intending to pursue graduate or professional studies, all majors would benefit from the more rigorous curriculum

General-education Courses

Any course in chemistry with a laboratory component for which the student is prepared may be taken toward fulfillment of the general-education requirement in science.

Chemistry 102, which is the chemistry general-education course taken by most non-science majors, may not be used to fulfill the requirements for a major or minor in any science area. Chemistry 250 may not be used to fulfill the requirements for a major or minor in any science area other than the environmental sciences.

American Chemical Society Certified Majors

For both Chemistry and Biochemistry majors there are two options students may complete; a non-ACS and an ACS approved major. The non-ACS major is intended primarily for those students who do not intend to pursue graduate or professional studies. The ACS major contains greater depth and is ideally suited for those wishing to pursue graduate or professional studies upon graduation. Students who will complete the ACS certified major must notify the chemistry department chair. Because the ACS approved majors require a specific number of course and laboratory hours, students should consult with their advisor to ensure they will meet these requirements. The department will track progress toward the ACS degrees and will award a certificate from the American Chemical Society.

Requirements for Chemistry Major (non-ACS Approved Degree)

A student pursuing a Bachelor of Science degree with a major in chemistry must complete a minimum of 37 hours of chemistry, including the following:

Foundational Chemistry Courses (28 hours):

CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 315WI	Analytical Chemistry	3-3-4
CHM 331WI	Physical Chemistry: Foundations	3-3-4
CHM 341	Biochemistry I	3-3-4
CHM 405WI	Inorganic Chemistry	3-3-4

In-Depth Chemistry Courses (9 hours):

CHM 222	Organic Chemistry II	3-3-4
CHM 490	Seminar	1-0-1
and 4 additional hours at the 300 level or higher		4 hours

Additional Science and Mathematics Requirements (15 - 16 hours):

PHY	One-year college-level sequence	8 hours
MAT 201	Calculus I	4-0-4
MAT 203	Multivariable Calculus <i>or</i>	4-0-4

MAT 111 Elementary Statistics 3-0-3

Requirements for Chemistry Major (ACS Approved Degree) A student pursuing a Bachelor of Science degree with a major in chemistry must complete a minimum of 43 hours of chemistry, including the following:

Foundational Chemistry Courses (28 hours):

CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 315WI	Analytical Chemistry	3-3-4
CHM 331WI	Physical Chemistry: Foundations	3-3-4
CHM 341	Biochemistry I	3-3-4
CHM 405WI	Inorganic Chemistry	3-3-4

In-Depth Chemistry Courses (15 - 21 hours):

CHM 222	Organic Chemistry II	3-3-4
CHM 332	Physical Chemistry: Applications	3-3-4
CHM 490	Seminar	1-0-1

Students must also take *at least* two additional courses from the 300 or 400 level so the number of in-depth course credit hours totals at least 12, and the number of in-depth laboratory hours totals at least 190. With prior granted permission and stipulations, research hours completed off campus, or as part of the student work program, may also count towards these requirements. *Possible combinations for additional in-depth courses include:*

Three additional courses with lab	12 hours
Two additional courses with lab and 1 hour of CHM 498	9 hours
One additional course with lab and 2 hours of CHM 498	6 hours

Additional Science and Mathematics Requirements (16 hours):

PHY	One-year college-level sequence	8 hours
MAT 201	Calculus I	4-0-4
MAT 203	Multivariable Calculus	4-0-4

Requirements for Biochemistry Major (non-ACS Approved Degree) A student pursuing a concentration in biochemistry must complete a minimum of 32 hours of chemistry, including the following:

Foundational Chemistry Courses (20 hours):

CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 341	Biochemistry I	3-3-4
CHM 315WI	Analytical Chemistry <i>or</i>	3-3-4
CHM 331WI	Physical Chemistry: Foundations	3-3-4

In-Depth Chemistry Courses (12 - 13 hours):

CHM 222	Organic Chemistry II	3-3-4
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CHM 342	Biochemistry II	3-3-4
CHM 490	Seminar	1-0-1
and one additional chemistry WI course at the 300 level or higher		3 - 4 hours

Additional Science and Mathematics Requirements (23 - 24 hours):

PHY	One-year college-level sequence	8 hours
MAT 201	Calculus I	4-0-4
MAT 203	Multivariable Calculus <i>or</i>	4-0-4
MAT 111	Elementary Statistics	3-0-3
BIO 111 and one additional BIO course at the 200 level or higher.		8 hours
The course requirements in biology for a Biochemistry major are waived for those students obtaining a biology minor.		

Requirements for Biochemistry Major (ACS Approved Degree) A student pursuing a concentration in biochemistry must complete a minimum of 36 hours of chemistry, including the following:

Foundational Chemistry Courses (28 hours):

CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 315WI	Analytical Chemistry	3-3-4
CHM 331WI	Physical Chemistry: Foundations	3-3-4
CHM 341	Biochemistry I	3-3-4
CHM 405WI	Inorganic Chemistry	3-3-4

In-Depth Chemistry Courses (15 - 21 hours):

CHM 222	Organic Chemistry II	3-3-4
CHM 342	Biochemistry II	3-3-4
CHM 490	Seminar	1-0-1

Students must also take *at least* two additional courses from the 300 or 400 level so the number of in-depth course credit hours totals at least 12, and the number of in-depth laboratory hours totals at least 190. With prior granted permission and stipulations, research hours completed off campus, or as part of the student work program, may also count towards these requirements. *Possible combinations for additional in-depth courses include:*

Three additional courses with lab	12 hours
Two additional courses with lab and 1 hour of CHM 498	9 hours
One additional course with lab and 2 hours of CHM 498	6 hours

Additional Science and Mathematics Requirements (24 hours):

PHY	One-year college-level sequence	8 hours
MAT 201	Calculus I	4-0-4
MAT 203	Multivariable Calculus	4-0-4
BIO 111 and one additional BIO course at the 200 level or higher.		8 hours
The course requirements in biology for a Biochemistry major are waived for those students obtaining a biology minor.		

Requirements for the Minor in Chemistry

A minor in chemistry requires a minimum of 20 hours, including these:

CHM 108	General Chemistry I	3-3-4
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 222	Organic Chemistry II	3-3-4

plus 4 additional hours of Chemistry courses at the 300 level or above.

Requirements for Teacher Certification in Secondary-School Science

Students planning to become certified to teach chemistry in Georgia public secondary schools must complete a concentration in chemistry and a minor in education. The student must be assigned an advisor in education in addition to her or his chemistry advisor. In order to become certified to teach chemistry in Georgia, students must pass the Georgia Assessments for the Certification of Educators (GACE). Regardless of the chemistry concentration chosen, enrolling in BIO 111 and two upper-level biology courses is strongly encouraged.

Environmental Sciences

Faculty: Coordinator and Associate Professor Davin. Also, faculty of the departments offering concentrations.

Science Center, Room 366A Telephone: (706) 290-2663

The environmental-sciences major at Berry College is an interdisciplinary program for the study of the earth's environment and human interactions with that environment. All students in the program take courses that address environmental issues from natural science, sociocultural and economic perspectives. Each student also chooses an area of concentration that focuses on either biology, chemistry, geoscience or public policy. The remaining required courses in the upper-level curriculum are selected in consultation with the student's advisor to address a specific area of interest or career objective. A flexible combination of courses allows students majoring in environmental sciences a broad-spectrum curriculum that would be difficult to obtain in more traditional science or social-science programs.

Like all liberal-arts degrees, the Bachelor of Science, with a major in environmental sciences, is not a vocational or professional degree. It is not designed to provide training for a specific career. By providing an in-depth understanding of environmental issues, however, the curriculum in environmental sciences prepares a student for graduate studies in environmental or related sciences, for regulatory governmental positions or for other jobs in the industrial, corporate, service or education sectors that require interdisciplinary training. The environmental-sciences program also gives students opportunities for internships, directed or independent studies, cooperative research with faculty, and summer studies at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi, or the Highlands Biological Station in Highlands, North Carolina.

Environmental Sciences Major Requirements

Each student must complete the core requirements listed below, plus the designated courses for one area of concentration.

Core Requirements		41 hours
EVS 104	Introduction to Environmental Sciences	3-2-4
EVS 405	Environmental Sciences Methods	2-4-4
EVS 490	Environmental Sciences Seminar	1-0-1
BIO 202	Principles of Zoology or	3-2-4
BIO 215	Principles of Microbiology and Botany	3-2-4
CHM 108	General Chemistry I	3-3-4
ECO 110	Principles of Economics I	3-0-3
GEO 101	Physical Geology	3-2-4
GOV 211	American National Government	3-0-3
MAT 111	Elementary Statistics	3-0-3
PHI 359WI	Environmental Ethics	3-0-3

Plus 8 hours of electives, chosen from a list of approved courses, offered by a school other than that of the student's area of concentration. A student whose area of concentration is in the natural sciences must choose non-science electives. A student whose area of concentration is outside the natural sciences must choose science electives.

Approved Non-science Electives

ANT 200	Cultural Anthropology	3-0-3
BUS 210	Legal Environment of Business	3-0-3
COM 301	Writing for the Mass Media	2-2-3
ECO 470	Environmental Economics*	3-0-3
GOV 207	Contemporary World Issues	3-0-3
SOC 355	Environmental Sociology*	3-0-3

Approved Science Electives

BIO 305	General Ecology	3-3-4
BIO 482	Coral Reef Ecology	2-4-4
BIO 483	Tropical Biodiversity	2-4-4
CHM 109	General Chemistry II*	3-3-4
CHM 250	Environmental Chemistry	3-3-4
GEO 320	Environmental Geology*	3-3-4
GEO 360	Geomorphology	3-3-4

*Please check catalog listing for prerequisites.

Areas of Concentration

Each area of concentration is offered and administered by an individual department or a group of departments working jointly. Each area of concentration requires at least 18 hours, but not more than 27 hours.

Area of Concentration in biology 27 hours

Requirements 12 hours

BIO 111	Principles of Cell Biology	3-2-4
BIO 305	General Ecology	3-3-4
BIO 405	Conservation Biology	3-3-4

Electives 15 hours

Minimum of 15 hours of BIO at the 200 level or above*

*The electives may include up to two courses from the Gulf Coast Research Laboratory (see Biology) or at the Highlands Biological Station.

Area of concentration in chemistry 20 hours

CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 222	Organic Chemistry II	3-3-4
CHM 315 WI	Analytical Chemistry	3-3-4
CHM 341	Biochemistry I	3-3-4

AREA OF CONCENTRATION IN GEOSCIENCE at least 23 hours

GEO 320	Environmental Geology	3-3-4
GEO 360	Geomorphology	3-3-4
GEO 420	Hydrology	3-2-4
CHM 250	Environmental Chemistry	3-3-4

Electives Minimum of 7 hours from the following (only one course may be taken at the 100 level)

BIO 305	General Ecology	3-3-4
BIO 315	Marine Science I: Oceanography*	3-4-5
CHM 109	General Chemistry II	3-3-4
CHM 221	Organic Chemistry I	3-3-4
CHM 315 WI	Analytical Chemistry	3-3-4
GEO 102	Historical Geology	3-2-4
GEO 482	Coastal Marine Geology*	2-2-3
PHY 111	Mechanics, Heat and Sound	3-2-4

*Offered through the Gulf Coast Research Laboratory

AREA OF CONCENTRATION IN PUBLIC POLICY 24 hours

SOC 200	Introduction to Sociology or	
ANT 200	Cultural Anthropology	3-0-3
ECO 210	Principles of Economics II	3-0-3
ECO 430	Public Economics	3-0-3
ECO 470	Environmental Economics	3-0-3
GOV 420WI	Public Administration and Public Policy	3-0-3
SOC 355	Environmental Sociology	3-0-3
One of the following:		
ECO 420	Introduction to Econometrics	3-0-3

GOV 393WI	Social Science Research Methods	3-0-3
SOC 305WI	Social Science Research Methods	3-0-3
One of the following:		
GOV 331	International Political Economy	3-0-3
GOV 411	International Law and Organizations	3-0-3

Mathematics and Computer Science

Professor Clendenning; Associate Professors McDowell, Prince, Tapia and R. Taylor; Assistant Professors Benzel, Hamid and Kapitza; Lecturer Johnson; Science Center, Room 355 Telephone: (706) 238-5856 Fax: (706) 238-7849

The growth of technology in our society has increased the need for individuals with analytical skills and experience in developing and using technology. Majors in the mathematical and computer sciences prepare students for a wide variety of careers requiring problem solving, logical reasoning and applications of current technology. Students who have majored in the mathematical sciences have received excellent preparation for graduate studies in a variety of fields, including engineering, law and medicine. The department offers majors in mathematics and computer science. Within the mathematics major, students may choose a mathematics or a mathematics education concentration. Students who choose the mathematics education concentration also take an education minor and are certified to teach mathematics in grades 6-12 in Georgia. All programs lead to the Bachelor of Science degree.

Majors

Mathematics

A mathematics concentration must have a minimum of 44 semester hours in mathematics courses.

The minor in mathematics requires 19 hours in mathematics courses; nine of these hours must be numbered 300 or above.

Requirements for Mathematics Concentration 44 hours

The following courses are required for a concentration in mathematics:

CSC 120	Principles of Computer Science I	3-2-4
MAT 201	Calculus I	4-0-4
MAT 202	Calculus II	4-0-4
MAT 203	Multivariable Calculus	4-0-4
MAT/CSC 219	Discrete Structures	3-0-3
MAT 303	Linear Algebra	3-0-3
MAT 304	Differential Equations	3-0-3
MAT 305WI	Proof Structures and Techniques	3-0-3
MAT 403WI	Introduction to Abstract Algebra I	3-0-3
MAT 414	Real Analysis	3-0-3
MAT 490	Mathematics Seminar	1-0-1

and 9 hours of electives from among the following:

MAT 311	Probability and Statistics	3-0-3
MAT 312WI	Modern Geometry	3-0-3
MAT/CSC 319	Combinatorial Mathematics	3-0-3
MAT 417	Complex Analysis	3-0-3
MAT 420	Advanced Topics in Mathematics	3-0-3
MAT 498	Directed Study	1 to 3 hours

Requirements for Mathematics Education Concentration 40 hours

The following courses are required for a concentration in mathematics education with emphasis on teaching secondary mathematics. In addition, the requirements for a minor in secondary education must be satisfied.

CSC 120	Principles of Computer Science I	3-2-4
MAT 111	Elementary Statistics	3-0-3
MAT 201	Calculus I	4-0-4
MAT 202	Calculus II	4-0-4
MAT/CSC 219	Discrete Structures	3-0-3
MAT 303	Linear Algebra	3-0-3
MAT 305WI	Proof Structures and Techniques	3-0-3
MAT 312WI	Modern Geometry	3-0-3
MAT 340	Technology-Enhanced Instruction in Mathematics 5-12	3-0-3
MAT 400	Senior Seminar in Mathematics Education	1-0-1
MAT 403WI	Introduction to Abstract Algebra	3-0-3

In addition, a minimum of three hours must be selected from these courses:

MAT 203	Multivariable Calculus	4-0-4
MAT 304	Differential Equations	3-0-3
MAT 498	Directed Study	1 to 3 hours

In addition, a minimum of three hours must be selected from these courses:

MAT 414	Real Analysis	3-0-3
MAT 417	Complex Analysis	3-0-3
MAT 420	Advanced Topics in Mathematics	3-0-3
MAT 498	Directed Study	1 to 3 hours

Requirements for the Minor in Mathematics

The minor in mathematics requires MAT 201, MAT 219, MAT 401 and 11 additional hours in mathematics courses; at least 8 of these additional hours must be numbered 300 or above.

Computer Science

Requirements for the Major

The major requires a minimum of 41 semester hours of course work in computer science: 29 hours of core courses, and another 12 hours of advanced study within the field. An additional minimum of 3 to 4 semester hours of course work in mathematics is required to complete the major.

Required Courses

Core		29 hours
CSC 120	Principles of Computer Science I	3-2-4
CSC 121	Principles of Computer Science II	3-2-4
CSC 219	Discrete Structures	3-0-3
CSC 220	Data Structures and Algorithms	3-2-4
CSC 300	Professional and Social Contexts	1-0-1
CSC 320	Algorithms and Models of Computation	3-0-3
CSC 340WI	Operating Systems	3-0-3
CSC 350	computer Organization and Architecture	3-2-4
CSC 490WI	Senior Project	3-0-3

Computer science majors must earn a C or better in all CSC core courses.

Mathematics 7 hours

MAT 111	Elementary Statistics	3-0-3
MAT 201	Calculus I	4-0-4

Electives

Advanced Study 12 hours

In addition to the core, another 12 hours of computer science course work must be completed, chosen from among the following:

CSC/MAT 319	Combinatorial Mathematics	3-0-3
CSC 333	Imbedded and Real-Time Microprocessor Interfacing and Control	2-2-3
CSC 361	Systems Analysis and Design or	
CSC 362	Database Management Systems	3-0-3
CSC 404WI	Organization of Programming Languages	3-0-3
CSC 420	Advanced Topics in Computer Science	3-0-3
CSC 450	Net-centric Computing or	2-2-3
CSC 461	Data Communications and Networking	3-0-3
CSC 498	Directed Study	1 to 3 hours

Mathematics 3-4 hours

One additional mathematics course chosen from among the following must also be completed. Students interested in pursuing graduate studies in computer science are strongly encouraged to take all three of these mathematics courses.

MAT 202	Calculus II	4-0-4
MAT 303	Linear Algebra	
MAT/CSC 319	Combinatorial Mathematics	3-0-3

Practical Work Experience

Students must engage in and document a practical work experience. Common ways to satisfy this requirement include: participation in the BITS program (1 semester), academic internship (3 semester hours), and cooperative (co-op) work experience (80 work hours). Students are encouraged to consult the Career Development Center for assistance in pursuing internship or co-op experience. Alternate methods may be proposed by the student and submitted to the department for approval.

Requirements for the Minor

The minor consists of 24 semester hours and must include:

CSC 120	Principles of Computer Science I	3-2-4
CSC 121	Principles of Computer Science II	3-2-4
CSC 219	Discrete Structures	3-0-3
CSC 220	Data Structures and Algorithms	3-2-4
CSC 320	Algorithms and Models of Computation	3-0-3

An additional 6 hours must be taken at the 300 level or above in residence at Berry.

Physics, Astronomy and Geology

Professor Whatley; Associate Professors Lane, Timberlake; Assistant Professor Jovanelly and Robb

Science Center, Room 338 Telephone:(706) 290-2673 Fax: (706) 238-7855

Physics

Physics, originally called natural philosophy, is the study of the physical world. Astronomy is the scientific study of the heavens and began as an independent discipline but came to be closely linked with physics in the 20th century. Physicists and astronomers use experiments and observations to study matter and energy, and to analyze the results and formulate theories using mathematics. Logical thinking and problem solving are emphasized.

Aims of the department of physics are to

1. Prepare physics majors for graduate schools or jobs in government laboratories or industry,
2. Guide dual-degree engineering students through their three years of education at Berry,
3. Provide courses in physics and astronomy as a service to other departments,
4. Help in preparing secondary-school teachers of science, and
5. Provide scientific training for individuals who enjoy physics and astronomy but want to work in other fields.

Requirements for the Major in Physics

Concentration I is for students aiming for careers in physics. It requires a minimum of

35 semester hours of physics and astronomy, with a minimum of 19 of those hours on the 300 and 400 levels. The following courses are required:

PHY 211	General Physics I with Calculus	3-2-4
PHY 212	General Physics II with Calculus	3-2-4
PHY 302	Classical Mechanics I	3-0-3
PHY 303	Electricity and Magnetism	3-0-3
PHY 307WI	Modern Physics	3-0-3
PHY 310	Measuring the Fundamental Constants or	1-2-2
PHY 311	Experimental Methods in Physics	1-2-2
PHY 410	Thermodynamics and Statistical Mechanics	3-0-3
PHY 430WI	Quantum Mechanics	3-0-3
CHM 108	General Chemistry I	3-3-4
MAT 202	Calculus II	4-0-4
MAT 304	Differential Equations	3-0-3

Students who plan to attend graduate school should take additional courses in physics and mathematics, including MAT 303 Linear Algebra.

Concentration II is for all other students who desire a major in physics, such as those planning to teach physics at the secondary level or those with interests in engineering, meteorology or careers not specifically scientific or technical. Concentration II requires a minimum of 30 semester hours of physics and astronomy, of which at least 15 must be in the 300 and 400 levels from lecture courses not cross-listed. In the case that a student transfers to an engineering school (as in the dual-degree engineering program; see below), a number of the physics hours may be transferred back, subject to the approval of Berry's physics department. Required courses are:

PHY 211	General Physics I with Calculus	3-2-4
PHY 212	General Physics II with Calculus	3-2-4
PHY 302	Classical Mechanics I	3-0-3
PHY 303	Electricity and Magnetism	3-0-3
PHY 307WI	Modern Physics	3-0-3
PHY 310	Measuring the Fundamental Constants or	
PHY 311	Experimental Methods in Physics	1-2-2
MAT 202	Calculus II	4-0-4
MAT 304	Differential Equations	3-0-3
CHM 108	General Chemistry I	3-3-4

The Dual-Degree Engineering Program

Berry College maintains dual-degree programs with the College of Engineering at the Georgia Institute of Technology.

In this program, the student is scheduled to attend Berry for approximately three years (six semesters). Then the student will transfer to Georgia Tech and take courses there for approximately two years (four, possibly five additional terms). At the end of that period, the student will have earned two baccalaureate degrees, one from Berry and one from Georgia Tech.

Under this program, students have the option of choosing a major or not choosing a major at Berry. Students choosing a major are encouraged to consider the Concentration II physics major that is specifically designed for dual-degree students and provides a strong background for a broad range of engineering specialties. Other majors are also possible. Certain ones may be particularly appropriate to a specific engineering specialty (e.g., chemical or computer engineering); however, these other majors may require an extra semester at Berry. If the student does not choose a major, the Berry degree will be in dual-degree engineering. The student is not limited in a choice of engineering specialty, although some specialties require certain courses at Berry and some may require an extra semester at Georgia Tech.

For more information, please contact the dual-degree coordinator: Dr. Charles Lane
Dual-degree Coordinator, Campus Box 5004 Mount Berry, GA 30149-5004 706-290-2673
clane@berry.edu Room 338C, Science Building A general description of the requirements for the program with the Georgia Institute of Technology is listed below. The specific requirements of each engineering field may be found at:

Berry College Requirements

The student must complete 93 semester hours of courses at Berry. Among these courses, Berry requires the following:

Communication

COM 203	Introduction to Speech
ENG 101	First-Year Seminar in Rhetoric and Writing
ENG 102	First-Year Seminar in Critical Inquiry and Writing

Health and Physical Education

HPE Activity
HPE Activity
HPE 220 **or**
HPE 221 **or**
HPE 222

Behavioral and Social Sciences

ECO 110: This course is required by Georgia Tech and will count toward Berry's general education requirement in the behavioral and social sciences.

Select one course from two of the following three areas:

Government: GOV 211 (GA Tech requires students to take GOV 211 or HIS 205 or HIS 206)

Psychology: PSY 101

Sociology or Anthropology: SOC 200 or ANT 200

Humanities and Fine Arts

HIS 205 or HIS 206. (GA Tech requires students to take GOV 211 or HIS 205 or HIS 206)

Select one course from each of the three following areas:

Fine Arts: ART 201, ART 202, MUS 215 or THE 201

Literature: Any 200-level literature course

Religion or Philosophy: Any 100-level course
HUM 200 or additional course noted here as history, fine arts, literature,
religion or philosophy.

Mathematics and Natural Sciences

MAT 201. This course is required by Georgia Tech and will count toward Berry's general education requirement in mathematics.

CHM 108. This course is required by Georgia Tech and will count toward Berry's general education requirement in the natural sciences.

PHY 211. This course is required by Georgia Tech and will count toward Berry's general education requirement in the natural sciences.

Electives

Two courses for a total of no less than 6 semester hours, selected outside the student's major discipline (if a major is chosen) and outside the student's minor discipline (if a minor is chosen).

Berry College Courses

BCC 099 or 100

Other Berry College Requirements

Writing-Intensive Courses: Students must complete two "writing-intensive" courses totaling a minimum of six semester hours at the 300 level or above. One of these courses must be PHY 307WI (see "Department Requirement" below); if the student has not chosen a major, then the other course may be from any discipline.

Cultural Events: The student must attend three approved cultural events for each semester of full-time enrollment at Berry.

Department Requirement

The Department of Physics, Astronomy and Geology requires that PHY 307WI be taken by all dual-degree engineering students, in partial fulfillment of Berry's writing-intensive requirement.

Georgia Tech Requirements

For admission to Georgia Tech under the dual-degree program, the student must complete the 93 semester hours at Berry. Students must have the following minimum GPA in all courses and in math/science courses: 2.7 for Georgia residents, 3.0 for US citizens and permanent residents not from Georgia, 3.5 for international students. You should take:

Mathematics:

MAT 201

This course will satisfy Berry's general education requirement for mathematics.

MAT 202, MAT 203,
MAT 303, and MAT 304

Computer Science:

CSC 120

CSC 121

(strongly recommended)

Natural Sciences:

CHM 108 This course will satisfy Berry's general education requirement for the natural sciences.
 CHM 109
 PHY 211 This course will satisfy Berry's general education requirement for the natural sciences.
 PHY 212
 BIO 111 (only for those pursuing a degree in civil engineering)

General Courses:

ENG 101, ENG 102
 GOV 211 or HIS 205 or
 HIS 206
 ECO 110

Requirements for the Physics Minor

Students minoring in physics take 18 hours of physics, with at least 9 hours on the 300 and 400 levels.

Requirements for Teacher Certification in Physics

Students planning to become certified to teach physics in the Georgia public secondary schools must major in physics and minor in secondary education. In order to become certified to teach physics in Georgia, students must pass the Georgia Assessments for the Certification of Educators (GACE). Students must be assigned an advisor in education as well as in physics.

Geology

Geology is the study of the materials, processes and history of the earth including rocks and minerals, resources, landforms and the biotic and abiotic history of the planet. Geology is a science conducted in the classroom, the laboratory and the field.

The geology program has three major functions:

1. To prepare environmental sciences majors with a concentration in geoscience for entrance into graduate schools in environmental science, geology or law;
2. To provide courses in geology for general education requirements and middle school teacher certification, and
3. To benefit anyone seeking a minor in college.

Requirements for the Geology Minor

A minor in geology requires at least 18 hours, as follows:

Required		
GEO 101	Physical Geology	3-2-4
GEO 102	Historical Geology	3-2-4
Any of the following totaling 10 or more hours		
GEO 150	Geology of the Bahamas	2-3-4
GEO 151	Geology of National Parks	2-3-4

GEO 320	Environmental Geology	3-3-4
GEO 350	Advanced Topics in Geology	1 to 4 hours
GEO 360	Geomorphology	3-3-4
GEO 420	Hydrology	3-2-4
GEO 498	Directed Study	1 to 4 hours

From the Gulf Coast Research Laboratory

GEO 482	Coastal Marine Geology	2-2-3
BIO 315	Marine Science I: Oceanography	3-0-3
BIO 315L	Marine Science I: Oceanography Lab	0-4-2

General-Education Courses

The recommended general-education courses offered in physics and geology are

PHY 101	Introduction to the Physical World	3-2-4
AST 106	The Solar System	3-2-4
AST 107	Stars, Galaxies and Cosmology	3-2-4
AST 120	The Copernican Revolution	3-2-4
GEO 101	Physical Geology	3-2-4
GEO 102	Historical Geology	3-2-4
GEO 150	Geology of the Bahamas	2-3-4
GEO 151	Geology of National Parks	2-3-4

but any other courses at the 100 and 200 levels in physics or geology will suffice.