

# School and College Curricula

This section of the *Bulletin* lists the schools and colleges alphabetically and provides information about curricula within them as well as general descriptions of interdepartmental and interdisciplinary curricula and ROTC programs. Information about most college and school undergraduate admission, retention and graduation standards as well as other information about the college or school is also provided here. Each undergraduate academic program offered by a school or college is presented in a curriculum model with required and elective courses listed in a possible semester-by-semester sequence. These models are provided as guides to help students and advisers plan the individual student's course of study. Students should realize, however, that it might not be possible to schedule every course in the year and semester as presented. Careful planning with the help of an academic advisor is usually necessary if students are to complete their programs in a timely manner and meet all course prerequisites.

All undergraduate curricula can accommodate six hours of ROTC; military science courses may be taken in place of electives, and in some curricula, with permission, in place of certain required courses.

## Interdepartmental and Interdisciplinary Curricula

### Biosystems Engineering (BSEN)

The curriculum in biosystems engineering is coordinated by the Samuel Ginn College of Engineering. See the Department of Biosystems Engineering in the Samuel Ginn College of Engineering for further information.

### Ecological Engineering (ECEN)

The curriculum in ecological engineering is coordinated by the Samuel Ginn College of Engineering and prepares students to solve environmental problems by applying engineering knowledge to natural ecological and biological systems. See the Department of Biosystems Engineering in the Samuel Ginn College of Engineering for further information.

### Environmental Science (ENVI)

The curriculum in environmental science is an interdepartmental program based on the strengths of Auburn University in the engineering, biological and physical sciences. See the Department of Civil Engineering in the Samuel Ginn College of Engineering for further information.

### Forest Engineering (FOEN)

The School of Forestry and the Samuel Ginn College of Engineering coordinate the curriculum in forest engineering. See the Department of Agronomy and Soils in the College of Agriculture for further information.

## Interdisciplinary University Studies (IDSC)

The bachelor of science in interdisciplinary university studies allows students to attain a broad education and acquire diverse skill sets unique to a profession they desire. Students seeking an Interdisciplinary University Studies degree have the opportunity to create a personalized academic program, by customizing a curriculum that demonstrates proficiency in broad skills as well as discipline-specific knowledge.

All students in this major must earn a grade of C or better in UNIV 2190 (Foundations of Interdisciplinary University Studies) and in three supporting courses: one in oral communication, one in computer competence, and one in written communication above ENGL 1120. Finally, all students must complete a capstone experience (UNIV 4930 or UNIV 4980). In the Foundations course, students learn about interdisciplinary studies in general and also begin to craft their individualized degree plan; and in the capstone experience, students integrate their acquired knowledge through a research project (UNIV 4930), service learning project (UNIV 4980), or an internship program (UNIV 4980).

For their major courses, students select two or three areas of emphasis from two or three different Schools or Colleges, and take 18 credit hours (two emphases) or 12 credit hours (three emphases) within each emphasis for a total of 36 credit hours in the major. Of these 36 hours, at least 20 hours must be at the 3000-level or higher. Within a particular emphasis, at least 12 out of the 18 hours (for two emphases) or 9 out of the 12 hours (for three emphases) must be from courses offered by that

college or school. The remaining courses may be chosen from closely related courses in another College or School. Courses in the major that are outside the College or School of the emphasis areas must be at the 3000-level or higher.

Admission is determined by application. For admission, students must first complete UNIV 2190 with a grade of C or better, and must also complete a program application that includes a goal statement and an approved individualized plan of study. Approval for each emphasis will come from the appropriate faculty advisor, program director, or department head. Approval for the entire degree plan must be obtained from a faculty mentor, identified by the student. An Interdisciplinary degree faculty mentor must be a full-time member of the Auburn University faculty with a rank of Assistant, Associate, or Full Professor. For admission into the major, students must have an overall Auburn University GPA of 2.0 or higher, or a GPA of 2.2 or higher on the most recent semester's coursework at Auburn University. Additional information about the major can be found at [http://www.auburn.edu/academic/provost/undergrad\\_studies/IDSC](http://www.auburn.edu/academic/provost/undergrad_studies/IDSC).

### Interdisciplinary University Studies (IDSC)

Courses required	Cr. Hr.
Auburn University Core Curriculum*.....	41-42 (old or new core curriculum)
Introductory Course to Interdisciplinary Studies (a).....	3
UNIV 2190	
Interdisciplinary Supporting Coursework	
Oral Communications (a,b).....	3
Computer Competency (a,b).....	2-3
Advanced Written Communication (a).....	3
ENGL 3040, 3080 or 4000	
Capstone Experience (UNIV 4930 or UNIV4980) (a).....	3
Major Course Hours (c,d) .....	36
Prerequisites/Major Supporting Courses/Electives .....	27-29
Minimum Number of Required Hours .....	120

- a. Must have grade of C or better (S in UNIV 4980).
- b. Alternative courses may be approved to meet the objectives for computer competence and oral communication. Students should consult with an IDSC advisor for options.
- c. Major course hours are used to calculate the GPA in the major.
- d. Total of a minimum of 36 hours selected across two emphases, each with 18 hours, or across three emphases, each with 12 hours. Emphases must be selected from at least two different schools and colleges. Approval of the appropriate faculty advisor, program director or department chair for courses in each emphasis is required. Approval of a faculty mentor for the entire degree plan is required. The Director of the IDSC Program must approve the application for admission to the degree program.

\* University Core Courses cannot be used to satisfy IDSC supporting course requirements.

## Materials Engineering (MATL)

The curriculum in materials engineering is an interdisciplinary curriculum conducted cooperatively by departments in the Samuel Ginn College of Engineering and the College of Sciences and Mathematics. See the Department of Mechanical Engineering in the Samuel Ginn College of Engineering for further information.

## Interdepartmental and Interdisciplinary Courses and Minors

### Statistics

While graduate degrees in statistics are offered through the Department of Mathematics and Statistics in the College of Sciences and Mathematics, courses in statistics, both general introductory courses and those treating the application of statistics to specific disciplines or problems, are offered through the cooperation of many departments and colleges throughout the university. Students interested in receiving training in statistics to support their degree program should consult their advisor and the listing of statistics courses in the "Courses of Instruction" section of this *Bulletin*, under the heading "STAT."

#### Undergraduate Statistics Minor

15 semester hours in minor

<b>Courses required</b>			<b>Cr. Hr.</b>
STAT	3600	Probability & Statistics I .....	3
STAT	3610	Probability & Statistics II .....	3
OR			
STAT	3010	Statistics for Engr & Scientists.....	3
STAT	4020	Intermediate Statistical Methods.....	3
<b>9 Hours from Elective Course:</b>			
STAT	4610	Applied Regression Analysis .....	3
STAT	4620	Applied Nonparametric Statistics.....	3
STAT	4630	Applied Time-Series Analysis .....	3
STAT	5110	SAS Programming.....	3
STAT	5630	Sample Survey, Design & Analysis.....	3

### Biochemistry

While degrees in chemistry/biochemistry are offered through the Department of Chemistry and Biochemistry in the College of Sciences and Mathematics, courses in bio-chemistry, required in or relevant to many degree programs, are offered through the cooperation of many departments and colleges throughout the university. Students interested in training in biochemistry to support their degree program should consult their advisor and the listing of biochemistry courses in the "Courses of Instruction" section of this *Bulletin*, under the heading "BCHE."

### Molecular Biology

While degrees in microbial, cellular, and molecular biology, as well as some undergraduate courses, are offered through the Department of Biological Sciences in the College of Sciences and Mathematics, graduate courses in molecular biology, required in or relevant to many degree programs, are offered through the cooperation of many departments and colleges throughout the university. Students interested in graduate-level training in molecular biology should consult their advisor and the listing of molecular biology courses in the "Courses of Instruction" section of this *Bulletin*, under the heading "CMBL."

#### Minor in Sustainability Studies

15 semester Hours in minor (minimum 9 hours at 3000-level or above)

<b>Courses required</b>			<b>Cr. Hr.</b>
SUST	2000	Introduction to Sustainability.....	3
SUST	5000	Sustainability Capstone.....	3

Approved electives, see Office of Sustainability website for listing. [www.auburn.edu/sustainability](http://www.auburn.edu/sustainability).

### Minor in Leadership

Auburn University offers an Interdisciplinary Leadership Minor (ILM). In order to pursue a minor in leadership, students should file a Plan of Study, in consultation with the ILM advisor/coordinator as early as possible. The Plan of Study is ideally completed within the first semester of taking courses toward the minor. The completion and filing of the Plan of Study is a prerequisite to enrolling in the senior capstone class in the ILM. Courses required in the student's major may not be counted toward the minor even if they are on the list of accepted courses. Courses counted toward Core Curriculum requirements may not be counted toward the minor. At least 3 hours must be taken from each of six competency areas, with 9 of the 12 hours at the 3000 level or above. The competency areas are: I. Leadership Knowledge and Theory, II. Interpersonal Skills, III. Communication--Oral, Written and Interpersonal, IV. Problem Solving and Decision Making, V. Vision of Civic and Social Responsibility, and VI. Service Learning.

18 semester Hours in minor (minimum 9 hours at 3000-level or above)

#### Courses required

<b>Leadership Knowledge and Theory, 3 hours</b>			<b>Cr. Hr.</b>
UNIV	2000	Foundations of Leadership .....	3

#### Service Learning, 3 hours

UNIV	4000	Leadership in Practice .....	3
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#### Interpersonal Skills, Select 3 hours

MNGT	3460	Organizational Behavior .....	3
POLI	3340	Introduction to Conflict Resolution .....	3
POLI	5340	Practice of Mediation .....	3
PSYC	3580	Social Psychology .....	3
COMM	1000	Public Speaking .....	3
COMM	2400	Communication in Organizations .....	3
AGRI	5840	Advance Agricultural Leadership Development .....	3

#### Communication, Select 3 hours

COMM	1000	Public Speaking.....	3
COMM	2400	Communication in Organizations .....	3
COMM	2410	Small Group Communication .....	3
COMM	3450	Intercultural Communication.....	3
COMM	3100	Speaking Before Audiences.....	3

#### Problem Solving and Decision Making, Select 3 hours

PHIL	3660	Applied Ethics.....	3
POLI	3340	Introduction to Conflict Resolution .....	3
POLI	5340	Practice of Mediation .....	3
MNGT	3100	Principles of Management .....	3
MNGT	3910	Foundations of Management .....	3

#### Civic and Social Responsibility, Select 3 hours

SOCY	1000	Sociology: Global Perspective .....	3
SOCY	2200	Social Psychology .....	3
SOCY	3500	Minority Groups .....	3
POLI	3090	Introduction to International Relations .....	3
POLI	3100	Introduction to World Affairs .....	3
POLI	3290	The American Presidency .....	3
POLI	4050	American Local Government .....	3
POLI	5610	Women in Politics .....	3
POLI	5620	African American Politics .....	3
SOCY	2000	Social Issues .....	3
SOCY	3500	Minority Groups .....	3
RSOC	3620	Community Organization .....	3
HDFS	4300	Family and Social Policy .....	3
ANSC	4800	Issues in Agric. (2) and ANSC 4970 Special Problems(1).....	3