

Engineering - Environmental (UA Only)

This template has been completed by the appropriate Academic Committee as a blueprint for guiding students who intend to major in this discipline. Students who successfully complete this course of study and who meet the requirements for admission to the participating state senior institution are eligible to apply for admission to the major with junior standing. Not all two-year colleges or universities will offer every course or program and course numbers and names may vary. Students desiring to transfer will be advised to refer to catalogs or to access details about courses and programs through world-wide web sites of colleges and universities.

Areas I-IV General Studies Curriculum Core (EXCEPTION FOR ENGINEERING MAJORS)

35-36 Hours (Could be 36 if a 4-SH Mathematics course is taken in Area III.)

Forty-one semester hours of credit in general studies core courses have been approved by the Articulation and General Studies Committee. The general studies curriculum core includes study in the areas of written composition, humanities and fine arts, natural sciences and mathematics, and history, social, and behavioral sciences.

Area I Written Communication

6 Semester Hours

Effective written communication skills are essential in a literate society. **Requirements include at least 6 semester hours in written composition.**

NOTE: English Composition I and II are the only courses available in AREA I.

Area II Humanities and Fine Arts

(EXCEPTION FOR ENGINEERING MAJORS)

9 Semester Hours

Study in the humanities addresses the ability to deal with questions of values, ethics, or aesthetics as they are represented in literature, philosophy, religion, and the arts, and is fundamental to general education. **Minimum requirements include at least 9 semester hours in humanities with a minimum 3 semester hours in literature*, 3 semester hours in the arts, and the remaining semester hours from the humanities and/or fine arts.** In addition to literature, disciplines in the humanities include, but are not limited to, philosophy, religious studies, speech, foreign languages, art, music, theatre, and dance.

NOTE: Students must complete a 6 semester-hour sequence either in literature or in history in Area II or IV.

Discipline Specific Requirements for AREA II:

Students must complete one of the following courses in Speech (3 SH):

SPH 106 Fundamentals of Oral Communication (3 SH)

SPH 107 Fundamentals of Public Speaking (3 SH)

Area III Natural Sciences and Mathematics

(EXCEPTION FOR ENGINEERING MAJORS)

11 Semester Hours (Could be 12 if a 4-SH Mathematics course is taken in Area III.)

Study in the natural sciences and mathematics emphasizes the scientific method and applies quantitative or inductive reasoning. Requirements include at least 11-12 semester hours with at least 3 semester hours in mathematics at the **analytic geometry and calculus** level or higher,* and at least 8 semester hours in **calculus-based physics** which must include laboratory experiences.

Courses in the natural sciences must include laboratory experiences which emphasize the scientific method.

Discipline Specific Requirements for AREA III:

Students must complete:

MTH 125 Calculus I (4 SH)

CHM 111 College Chemistry I (4 SH)

PHY 213 General Physics with Calculus I (4 SH)

Area IV History, Social and Behavioral Sciences

(EXCEPTION FOR ENGINEERING MAJORS)

9 Semester Hours

Study in history and the social and behavioral sciences deals primarily with the study of human behavior, social and political structures, and economics. **Requirements include 9 semester hours with at least a 3 semester hours course in history and at least 6 semester hours from among other disciplines in the social and behavioral sciences.** Disciplines include, but are not limited to, anthropology, economics, geography, political science, psychology, and sociology.

NOTE: Students must complete a 6 semester-hour sequence either in literature or in history in Area II or IV.

Discipline Specific Requirements for AREA IV:

No specific requirements.

Area V Pre-Professional, Major and Electives

(EXCEPTION FOR ENGINEERING MAJORS)

24-29 Semester Hours

*Hours may vary in Area V depending on major.

Area V is designated for courses appropriate to the degree/major requirements of the individual student (it may also include electives). These courses are most often taken during the last part of the sophomore year to prepare a student to enter the four-year institution as a junior in their chosen major.

NOTE: Some institutions may include courses in wellness or physical education.

Discipline Specific Requirements for AREA V:

Students should complete a total of 26 SH

Students must take:

MTH 126 Calculus II (4 SH)

MTH 227 Calculus III (4 SH)

MTH 238 Differential Equations I (3 SH)

CHM 112 College Chemistry II(4 SH)

MTH 265 Elementary Statistics (3 SH)

BIO 103 Principles of Biology (4 SH)

Additional 3-4 SH of electives from Area II-IV not already taken.

Total Combined Hours for Areas I-V

60-64 Semester Hours (EXCEPTION FOR ENGINEERING MAJORS)

(Could be 65 if a 4-SH Mathematics course is taken in Area III.)

NOTE: For institutions requiring 120 semester hours for graduation the maximum allowable hours for transfer from a community college into a four-year baccalaureate degree program will be 60 semester hours. The primary goal of the

template is to try to allow for 1/2 of the total degree hours to transfer from an Alabama public two-year community college to an Alabama public four-year university. The template sets the policy for the [ALABAMA TRANSFERS GUIDE](#). If you are a transfer student, make sure you obtain and follow an official [ALABAMA TRANSFERS GUIDE](#).

Total credits:

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