

Technology, Industrial Technology or Engineering Technology

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

41 Hours (Could be 42 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

12 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 12 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 planning to complete the bachelor's degree in Technology, Industrial Technology or Engineering Technology must complete the following:

6 semester hours of LITERATURE to be selected from:

AMERICAN LITERATURE
ENGLISH LITERATURE
WORLD LITERATURE

3 semester hours of ORAL COMMUNICATION from:

FUNDAMENTALS OF ORAL COMMUNICATION
FUNDAMENTALS OF PUBLIC SPEAKING

3 semester hours of ARTS, DRAMA, MUSIC or FOREIGN LANGUAGE from:

INTRODUCTION TO THEATER
ART APPRECIATION
THEATER APPRECIATION
MUSIC APPRECIATION
INTRODUCTORY JAPANESE I
INTRODUCTORY RUSSIAN I
INTRODUCTORY GERMAN I
INTRODUCTORY FRENCH I

Area III Natural Sciences and Mathematics

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 semester hours with at least 3 semester hours in mathematics at the precalculus algebra level or higher (some degrees may allow Finite Mathematics) and at least 8 semester hours in the natural sciences which must include laboratory experiences.** Disciplines in the natural sciences include but are not limited to, astronomy, biology, chemistry, geology, and physics.

NOTE: Some mathematics courses are offered for 4 semester credit hours and some natural science laboratory courses are often 5 semester hours. Only minimum semester hour requirements are indicated.

Discipline Specific Requirements for AREA III:

Students planning to complete a bachelor's degree in Technology, Industrial Technology, or Engineering Technology must complete the following:

8 semester hours in CHEMISTRY OR PHYSICS to be selected from:

COLLEGE CHEMISTRY
GENERAL PHYSICS (TRIG or CAL BASED)

3 semester hours of MATH to be selected from:

PRECALCULUS ALGEBRA
TRIGONOMETRY
CALCULUS

Area IV History, Social and Behavioral Sciences

12 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 12 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:

Students planning to complete a bachelor's degree in Technology, Industrial Technology, or Engineering Technology must complete the following:

6 semester hours in HISTORY to be selected from:

WESTERN CIVILIZATION
WORLD HISTORY
UNITED STATES HISTORY

3 semester hours of MICROECONOMICS or MACROECONOMICS

3 semester hours of ANTHROPOLOGY, GEOGRAPHY, POLITICAL SCIENCE, PSYCHOLOGY, or SOCIOLOGY to be selected from:

INTRODUCTION TO ANTHROPOLOGY
PRINCIPLES OF PHYSICAL GEOGRAPHY
INTRODUCTION TO POLITICAL SCIENCE
GENERAL PSYCHOLOGY
INTRODUCTION TO SOCIOLOGY

Area V Pre-Professional, Major and Electives 19-23 Semester Hours

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:

COMMON COURSES (16-17 Semester Hours)

3 semester hours of MICROCOMPUTER APPLICATIONS

3-4 semester hours of STATISTICS or CALCULUS

3 semester hours of TECHNICAL WRITING or BUSINESS COMMUNICATION

3 semester hours of BASIC ELECTRONICS to be selected from:

ADVANCED CIRCUITS

PRINCIPLES OF ELECTRONICS AC

AC THEORY

PRINCIPLES OF AC ELECTRICITY

ELECTRICAL CIRCUITS IN AUTOMATED MANUFACTURING TECHNOLOGY

1 semester hour of AC ELECTRONICS LAB

3 semester hours of COMPUTER-AIDED DESIGN to be selected from:

BASIC COMPUTER AIDED DRAFTING

AUTOCAD CADD

INSTITUTIONAL SPECIFIC PRE-PROFESSIONAL, MAJOR COURSES

-----Alabama A&M University-----

Electrical Engineering Technology Majors at AA&MU should also take:

3 semester hours from: BASIC PROGRAMMING, VISUAL BASIC PROGRAMMING, FORTRAN, PROGRAMMING, C-PROGRAMMING, or C++ PROGRAMMING

3 semester hours of SOLID STATE DEVICES or DIGITAL CIRCUITS

Mechanical Engineering Technology Majors at AA&MU should also take:

3 semester hours from: BASIC PROGRAMMING, VISUAL BASIC PROGRAMMING, FORTRAN, PROGRAMMING, C-PROGRAMMING, or C++ PROGRAMMING

3 semester hours from: ENGINEERING MECHANICS - STATICS, STATICS, STRENGTH OF MATERIALS or MECHANICS OF MATERIALS

Industrial Technology Majors at AA&MU should also take:

3 semester hours from: BASIC PROGRAMMING, VISUAL BASIC PROGRAMMING, FORTRAN, PROGRAMMING, C-PROGRAMMING, or C++ PROGRAMMING

3 semester hours from: MANUFACTURING METHODS, MANUFACTURING PROCESSES, INTRODUCTION TO OCCUPATIONAL SAFETY, or INDUSTRIAL MANAGEMENT

TOTAL INSTITUTION SPECIFIC COURSES FOR AA&MU = 6 Semester Hours

-----Jacksonville State University-----

All Technology Majors at JSU should also take:

3 semester hours of WELLNESS

3 semester hours of VISUAL BASIC PROGRAMMING or C PROGRAMMING

TOTAL INSTITUTION SPECIFIC COURSES FOR JSU = 6 Semester Hours

-----University of West Alabama-----

All Technology Majors at UWA should also take:

3 semester hours of CALCULUS/BUSINESS CALCULUS*

*Note: In the event that a student places into calculus or business calculus and does not take precalculus algebra, the calculus/business calculus listed here will be shifted to Area III. In this case, the student should take 3 semester hours in MICROECONOMICS or MACROECONOMICS.

UWA will transfer up to 30 semester hours from a community college toward the Industrial Maintenance 2-year AAS degree program.

TOTAL INSTITUTION SPECIFIC COURSES FOR UWA = 3 Semester Hours

Total Combined Hours for Areas I-V

60-64 Semester Hours (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:

0