ILT 206. MICROPROCESSORS LAB.—2 hours.
COREQUISITE: ILT 205.
This course provides familiarization of microprocessor instruction sets. Experiments in programming and interfacing provide an understanding of microprocessor theory. Upon completion of this course, students should be able to program and interface a basic microprocessor system.

ILT 211. TROUBLESHOOTING TECHNIQUES.—3 hours.
PREREQUISITES: ILT 176, ILT 170.
This course focuses on the systematic approach to solving problems. Emphasis is placed on instrument failures and their interaction with process down-time. Upon completion, students should be able to solve problems on a process simulator or in an actual setting.

ILT 212. ADVANCED PNEUMATICS.—3 hours.
This course covers air valve designs and the physical structure of typical solenoid operated valves. Topics include actuators, vacuum systems, air drive and motor driven pumps. Upon completion, students should be able to apply principles of air valve designs and the physical structure of typical pneumatics systems.

ILT 213. ADVANCED PNEUMATICS LAB.—3 hours.
This lab includes actuators, vacuum systems, air drive and motor driven pumps. Upon completion, students should be able to apply principles of air valve designs and the physical structure of typical pneumatics systems.

ILT 222. ADVANCED PROGRAMMABLE LOGIC CONTROLLERS.—3 hours.
This course focuses on advanced PLCs. Topics include operations, programming procedures, fault isolation procedures, and methods of entering, executing, debugging, and changing programs. Upon completion, students should be able to apply principles of operations and programming of advanced PLCs.

ILT 223. ADVANCED PROGRAMMABLE LOGIC CONTROLLERS LAB—3 hours.
This lab emphasizes advanced PLCs. Topics include operations, programming procedures, fault isolation procedures, and methods of entering, executing, debugging, and changing programs. Upon completion, students should be able to apply principles of operations and programming of advanced PLCs.

ILT 229. PC REPAIR.—3 hours.
This course covers the repair of personal computers including hardware and software problems. Proper procedures for circuit card handling and replacement, installation of various drives and installations of software are covered. This course helps prepare the student for the A+ certification. Upon completion of this course, the student should be able to explain the proper procedures used in handling and replacing circuit cards, drives, memory and installing software.

ILT 230. COMPUTER REPAIR LAB.—2 hours.
This course allows the student to practice using the proper procedure discussed in the theory course. Students will repair computers following the proper procedures covered. This course will help prepare the student for the A+ certification. Upon completion of this course, the student should be able to repair a personal computer.

ILT 231. NATIONAL ELECTRIC CODE.—3 hours.
This course introduces students to the National Electric Code. Emphasis is placed on locating and interpreting needed information within the NEC manual. Upon completion of this course, the student should be able to locate code requirements for a specific electrical installation.

ILT 232. PC REPAIR CLINICAL.—3 hours.
This course allows the student to work in the technical capacity as a PC technician at the college or other local sites as approved by the college. Upon completion, the student should be able to perform specific job related skills associated with PC repair.

ILT 291. COOPERATIVE EDUCATION.—1-3 hours.
This course provides students work experience with a college-approved employer in an area directly related to the student’s program of study. Emphasis is placed on integrating classroom experiences with work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

INTERDISCIPLINARY STUDIES (IDS)
IDS 115. FORUM.—1 hour. C
PREREQUISITE: Permission of the instructor.
In this course, credit is given in recognition of attendance at academic lectures, concerts, and other events. IDS 115 requires attendance at designated events which are chosen from various lectures, cultural events and programs given at the college or in the community. IDS 115 may be repeated for credit.

IDS 200. COLLEGE SCHOLARS BOWL WORKSHOP.—1 hour. C
PREREQUISITE: As required by program.
This course offers the student preparation, practice, and participation in the College Scholars Bowl Program and competition. IDS 200 may be repeated for credit.

MASS COMMUNICATIONS (MCM)
MCM 113-114-115
213-214-215 STUDENT PUBLICATIONS.—1-2 hours. C
These courses offer practical experience in journalism skills through working on the staff of student publications.

MATHEMATICS (MAH) (MTH)
MTH 091. DEVELOPMENTAL ALGEBRA I.—3 hours.
This course provides the student with a review of arithmetic and algebraic skills to provide sufficient mathematical
proficiency for entry into MTH 098. The student who places via ASSET/COMPASS to take MTH 091 must finish the course with a minimum grade of 70% or a C before taking MTH 098.

MTH 098. ELEMENTARY ALGEBRA.—4 hours.  
PREREQUISITE: MTH 091 or appropriate mathematics placement score.

This course is a review of the fundamental arithmetic and algebra operations. The topics include the numbers of ordinary arithmetic and the properties; integers and rational numbers; the solving of equations; polynomials and factoring; and an introduction to systems of equations and graphs. The student who places via ASSET/COMPASS to take MTH 098 must finish the course with a minimum grade of 70% or a C before taking MTH 100.

MTH 100. INTERMEDIATE COLLEGE ALGEBRA.—3 hours.  
PREREQUISITE: MTH 098 or appropriate mathematics placement score.

This course provides a study of algebraic techniques such as linear equations and inequalities, quadratic equations, system of equations, and operations with exponents and radicals. Functions and relations are introduced and graphed with special emphasis on linear and quadratic functions. This course does not apply toward the general core requirement for mathematics. The student who places via ASSET/COMPASS to take MTH 100 must finish the course with a minimum grade of 70% or a C before taking MTH 110 or MTH 112.

MAH 101. INTRODUCTORY MATHEMATICS I.—3 hours.  
PREREQUISITE: Satisfactory placement score.

This course is a comprehensive review of arithmetic with basic algebra designed to meet the needs of certificate and diploma programs. Topics include business and industry related arithmetic and geometric skills used in measurement, ratio and proportion, exponents and roots, applications of percent, linear equations, and formulas. Upon completion, students should be able to solve practical problems in their specific occupational areas of study. Upon completion of this course, students will be ready for MTH 116. NCA

MTH 110. FINITE MATHEMATICS.—3 hours.  
PREREQUISITE: All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a C or higher Intermediate College Algebra.

This course is intended to give an overview of topics in finite mathematics together with their applications, and is taken primarily by students who are not majoring in science, engineering, commerce, or mathematics (i.e., students who are not required to take Calculus). This course will draw on and significantly enhance the student’s arithmetic and algebraic skills. The course includes sets, counting, permutations, combinations, basic probability (including Baye’s Theorem), and introduction to statistics (including work with Binomial Distributions and Normal Distributions) matrices and their applications to Markov chains and decision theory. Additional topics may include symbolic logic, linear models, linear programming, the simplex method and applications.

MTH 112. PRECALCULUS ALGEBRA.—3 hours.  
PREREQUISITE: All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with C or higher Intermediate College Algebra (MTH 100).

This course emphasizes the algebra of functions - including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities, quadratic inequalities, and the binomial theorem. Additional topics may include matrices, Cramer’s Rule, and mathematical induction.

MTH 113. PRECALCULUS TRIGONOMETRY.—3 hours.  
PREREQUISITE: All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a C or higher MTH 112.

This course includes the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations. The course also covers vectors, complex numbers, DeMoivre’s Theorem, and polar coordinates. Additional topics may include conic sections, sequences, and using matrices to solve linear systems.

MTH 115. PRECALCULUS ALGEBRA AND TRIGONOMETRY.—4 hours.  
PREREQUISITE: All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a C or higher Intermediate College Algebra (MTH 100) and receive permission from the department chairperson.

This course is a one semester combination of Precalculus Algebra and Precalculus Trigonometry for superior students. The course covers the following topics: the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), systems of equations and inequalities, quadratic inequalities, and the binomial theorem, as well as the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations, vectors, complex numbers, DeMoivre’s Theorem and polar coordinates.

MTH 116. MATHEMATICAL APPLICATIONS.—3 hours.  
PREREQUISITE: MTH 091 or appropriate mathematics placement score.

This course provides practical applications of mathematics and includes selected topics from consumer math and algebra.