

RCTC Concurrent Enrollment Courses

The chart below contains the list of currently approved courses for concurrent enrollment. If there is interest in a course that is not on this list, please contact Michelle Pyfferoen at michelle.pyfferoen@rctc.edu

Subject	Course Number	Course Title	Description	Course Credit
ART	1110	Art Appreciation ART 1110 Common Course Outline	This course is an introductory exposure to art and to ideas about art and its creation. We will discuss the nature of art, explore the visual elements and principle of design, study a variety of art media and techniques, and examine major monuments and works of art from prehistoric through contemporary times. There will be a required museum activity. (Prerequisites: None).	3
BIOL	1100	Environmental Biology BIOL 1100 Common Course Outline	This is a one-semester course that introduces students to applied aspects of environmental science. It provides students with a broad overview of the scientific and social aspects of human impact on the environment, interrelationships among organisms and their physical environment, and current issues in environmental science. Students will examine humans' role in the natural world, the impact of the growth of the human population, and the increase in humans' technological ability to make changes in the world. Students will be encouraged to explore societal, political, economic and personal value systems with regard to environmental issues.	3
BIOL	1101	Elements of Biology BIOL 1101 Common Course Outline	A one-semester course for non-science majors that blends traditional and contemporary biological concepts for understanding life in today's world. Science and the scientific method, the nature of life, cell structure and function, cell reproduction, genetic inheritance, human genetic analysis, biotechnology, and evolution are covered. Students will evaluate ethical issues of some biological, genetic, and biotechnology applications. This course will serve as an introduction to cellular biology to prepare for further study in biology-related or health-related fields. Lab attendance is mandatory.	3
BIOL	1107	Fundamentals of Anatomy & Physiology BIOL 1107 Common Course Outline	This one-semester course provides a comprehensive overview of introductory human anatomy and physiology of the major body systems. The course introduces students to biological molecules, cells, tissues, and organ systems of the human body and incorporates medical terminology. The laboratory curriculum does not include physical dissection of organisms. (Prerequisites: None)	4

COMP	1741	JAVA Script COMP 1741 Common Course Outline	This course introduces client-side scripting. Students will explore HTML and CSS, dynamic client-side scripting using JavaScript, client-side error checking and validation, and asynchronous server interaction. Students will construct and evaluate various client-side interactions. College level reading is required. (Prerequisites: MATH 0099).	3
COMP	1751	Mobile Application Development COMP 1751 Common Course Outline	This course introduces development of applications for mobile devices. Students will explore web programming, native device programming, and database interaction. Students will construct and evaluate multiple applications for mobile devices. College level reading is required. (Prerequisites: MATH 0099).	3
ENGL	1117	Reading & Writing Critically I ENGL 1117 Common Course Outline	This course introduces students to various writing strategies for single and multi-source essays. By critically reading and responding, students will practice expository, analytical, and persuasive modes of communication to develop critical thinking and writing skills, culminating in limited research projects. College level reading and writing skills as demonstrated by appropriate RCTC placement test score or completion of appropriate developmental course(s) with a grade of C or better required. (Prerequisites: None).	4
ENGL	1118	Reading & Writing Critically II ENGL 1118 Common Course Outline	English 1118 fosters an appreciation of literature through reading and writing about a variety of literary works. Continuing the development of critical thinking skills begun in ENGL 1117, the course emphasizes literary argument and concludes with a major research project in which students demonstrate their expertise in finding, evaluating, using, and documenting outside sources. Students will define and develop their aesthetic by means of evaluating, analyzing, and drawing conclusions about both primary and secondary texts. (Prerequisites: Completion of ENGL 1117 with a grade of C or better).	4
ENGR	1101	Introduction to Engineering ENGR 1101 Common Course Outline	This course helps students gain an understanding of the profession of engineering, the pathway to an engineering career, and knowledge of the different fields of engineering. Hands-on projects and invited speakers will be included. Knowledge gained will be applied by students to guide their engineering education and to help in determining their career choice. (Prerequisites: None).	2
MATH	1015	Applied Technical Math MATH 1015 Common Course Outline	This course covers a review of basic arithmetic skills, fractions, decimals, and percent. It covers ratio/proportion, geometry, measurement (conversions), basic algebraic expressions, linear equations, and basic right triangle trigonometry. Emphasis is on problem solving with specific application packets designed to interface with the student's core program. Cooperative learning activities and technology are used to support learning. (Prerequisites: None).	3

MATH	1115	College Algebra MATH 1115 Common Course Outline	This is the first college level algebra course. Topics include but are not limited to: Polynomials, Rational, Exponential, and Logarithmic functions and their inverses, solving and graphing higher order equations, optimization applications, methods of solving systems of equations, and conic sections. Successful completion of prerequisite courses with a grade of C or higher. (Prerequisites: MATH 0099 or MATH 0100, READ 0900).	3
MATH	2237	Multivariable and Vector Calculus MATH 2237 Common Course Outline	This course is first in a sequence which is a continuation of the first year of calculus. Topics are selected from the following: coordinate and vector geometry, vector valued functions, velocity-acceleration and curvature, cylindrical and spherical coordinate systems, partial differentiation and applications, double and triple integrals, Green's-Stokes' Divergence Theorems, Frenet Formulas. (Prerequisites: MATH 1128, READ 0900).	5
PHYS	1103	Principles of Physics PHYS 1103 Common Course Outline	This course is a one-semester algebra-based general introduction to physics covering the topics of motion, force, energy, fluids, waves, basic electricity, radioactivity, and emission of radiation. Problem solving is practiced both individually and in groups. the laboratory includes the acquisition of experimental data, analysis, and graphing. Group presentations on physics topics are included in the course. (Prerequisites: MATH 0099 or equivalent).	3
POLS	1615	Introduction to American Government POLS 1615 Common Course Outline	This course is a survey course of American Government, with an emphasis on politics and history, the Constitution, civil liberties and rights, public opinion, interest groups, the political process, mass media, the branches of the federal government, and an overview of public policy and state and local government. A democracy requires its citizens to understand the dynamic of their political system	3