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**Note:**

Classes marked (T) are generally transferable to all the public colleges and universities in Washington. Transferability of General Education credits taken at Renton Technical College is subject to the policies in place at the receiving institution.

## General Education Courses

General Education courses are an important component of the AAS degree option. Whereas completion of the vocational training requirements demonstrates competency in the area of specialty, completion of the General Education requirements demonstrates a competence in oral and written communications, computations and human relations in the workplace.

General Education requirements vary for each degree program as described in the degrees section. General Education credits may be transferred to other colleges within guidelines established by the State Board for Community and Technical Colleges.

General Education courses in writing and math require acceptable scores on the COMPASS test. Students should complete the test at least two weeks prior to registering for a writing or math class. The scores will be used to advise students on appropriate coursework.

**For the most current course descriptions, see the quarterly Class Schedule or view online at [www.RTC.edu](http://www.RTC.edu)**

### College Level Examination Program (CLEP) Testing

Students may challenge the following General Education courses by receiving acceptable College Level Examination Program (CLEP) scores:

- Biology
- Chemistry
- College Mathematics
- College Algebra
- English Composition
- Introduction to Psychology

### ASL& 121

#### American Sign Language (T)

This course offers instructions in American Sign Language to support communication and social interaction with deaf and hearing-impaired individuals as well as supporting language/communication in typically developing children.

### BIOL 100

#### Introduction to Anatomy & Physiology

This course provides students with an introduction to the basic concepts of anatomy and physiology. It includes organization, classification and control of anatomical structures and an introduction to the major body systems. The course covers some medical terminology and introduces some concepts from chemistry and biochemistry. This course is intended for non-science majors or entry-level allied health majors.

### BIOL& 160

#### General Biology

Students explore the basic biological principles that describe and explain the nature of life. Topics include cell biology, molecular biology (including basic biochemistry and DNA structure and function), metabolism, and genetics. Students practice skills in both the classroom and the laboratory through formats such as group exercises, laboratory activities, quizzes, and exams.

### BIOL& 241

#### Human Anatomy & Physiology I (T)

This is the first of two classes designed for students who want to enter professional health care programs. It is the study of the gross anatomy and functioning of the human body. Covers body organization, cellular structure and function, fundamentals of chemistry and the physiology, structure and function of all the body systems. Lab includes microscopic tissue studies, dissection, work with ADAM software, and physiology projects related to the systems studied. Prerequisite: Completion of BIOL&160 and General Biology.

### BIOL& 242

#### Human Anatomy & Physiology II (T)

This is the second to two classes designed for students who want to enter professional health care programs. It is a study of the gross anatomy and functioning of the human body. Covers body organization, cellular structure and function, fundamentals of chemistry and the physiology, structure and function of all the body systems. Lab includes microscopic tissue studies, dissection, work with ADAM software, and physiology projects related to the systems studies. Prerequisite: BIOL&241, Human Anatomy and Physiology I.

### BIOL& 260

#### Microbiology (T)

Microbiology is a comprehensive course introducing classification, structure, and function of microbes. Focus includes disease causing bacteria, viruses, protozoa, and fungi. The role of these microorganisms in nature, environmental impact, and health applications is covered. Laboratory is an integral component, which includes training on microscope, slide prep, aseptic technique transfer/inoculation of bacteria, and use of various media to select, isolate, and characterize organisms. Prerequisite: Completion of BIOL&160 and General Biology.

### CHEM& 140

#### General Chemistry (T)

This introductory course discusses the basic concepts in general and inorganic chemistry. It is designed to prepare students for coursework in health sciences or more advanced scientific coursework by laying the foundation of the most 'elemental' science – chemistry. Topics covered range from the nature of atoms to chemical reactions and include homework, laboratories, exams, and group exercises. Prerequisite: Placement into MATH 095 or completion of MATH 085.

### CMST& 101

#### Speech Communication (T)

In this course students study the fundamentals of the communication process and apply them to personal and workplace relationships. Emphasis is on applying communication theory to interviewing, small group communications, and public speaking. Students are required to prepare and give oral presentations.

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**ECON& 201****Microeconomics (T)**

Microeconomic concepts are applied to problems involving scarcity, choice, competition, and cost. Examines the basic principles and models of microeconomics and their application to contemporary issues and problems including production, allocation, supply and demand analysis, elasticity, consumer choice, market structures, antitrust and regulation, and public microeconomics.

**ECON& 202****Macroeconomics (T)**

Macroeconomics focuses on the national economy - the determination of the national income level, economic growth and prosperity, government spending and taxation, money and banking, analysis of employment, inflation, aggregate output and economic growth, and fiscal and monetary policy tools including the intended and unintended effects of government policies including the effects of both demand-side and supply-side fiscal and monetary policies on the economy.

**ENGL 075****Business English**

This course provides students with comprehensive coverage of basic English grammar and mechanics. Students learn the rules of proper punctuation, capitalization, sentence structure and various other elements associated with successful business correspondence.

**ENGL 080****Writing Improvement I**

Learn how to make your writing sizzle by improving your basic sentence structure. This course is designed to help you write a wide variety of strong sentences as well as maximize your knowledge of grammar basics. Instruction includes daily writing and use of technology to assist writers in improving their writing skills.

**ENGL 085****Business Communication**

This course provides students with comprehensive coverage. This course is designed to assist students in developing the skills necessary to write effective resumes, reports, memos, letters and other business communications. Students will engage in writing activities, use document templates and forms, and review the basics of oral and written communication in the business world.

**ENGL 090****Writing Improvement II**

This writing improvement course helps students improve their composition skills by concentrating on paragraph construction. Paragraphs provide the foundation necessary for college-level writing. The coursework assists students to move from sentences to paragraphs and prepares them for writing papers and reports.

**ENGL 100****Applied Composition**

This practical writing course assists students with academic writing. The class incorporates journal summaries and basic essay formats to help students build on their sentence and paragraph strengths to be successful in college-level writing. This class assists students in moving their writing forward through practice.

**ENGL& 101****English Composition (T)**

This is a college level writing course in which students learn to write essays that explain ideas, argue for a position, and evaluate information. Students write draft essays based on personal experience and information gathered from a variety of resources. Students revise and edit their draft essays based on constructive comments offered by their peers and by their instructor. Upon successful completion of the course, students are able to write essays (of at least 1,000 words) demonstrating the conventions of standard written English. Prerequisite: COMPASS score of 75 or better or completion of ENGL 100 with a 2.0 or higher. Basic computer and keyboarding skills strongly recommended.

**ENGL& 102****Writing From Research (T)**

This course helps students develop ideas to guide. They learn to use ideas from a large number of sources as evidence in essays and longer research papers. Prerequisite: completion of ENGL&101 with a grade of 2.0 or higher.

**ENGL& 111****Introduction to Literature (T)**

An analysis and critical understanding of selected literature across genres, locales and eras. Themes include family, faith, good and evil, the individual and society, cultural identity and gender. Students explore elements of plot, theme, setting and character development. Exams and essays based on readings.

**ENGL 210****Children's Literature (T)**

This course examines children's books as part of the imaginative experience of children, as well as a part of a larger literary heritage, viewed in light of their social, psychological, and moral implications.

**ENGL& 235****Technical Writing (T)**

This course focuses on various aspects of professional and technical writing. Students study user guides, reports, proposals and other forms of business correspondence in order to successfully write for the workplace. Prerequisite: completion of ENGL& 101 with a grade of 2.0 or higher.

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**GEOL& 101****Introduction to Physical Geology (T)**

Examines geologic processes that shape the Earth. Emphasis is placed on understanding the language and methods of science as applied to our changing planet. Students develop critical thinking skills and apply them to regional geology. Topics include earthquakes, volcanism, glaciers, rivers, and structure of the Earth. May include field trips. Includes laboratory.

**HIST 110****Survey of U.S. History (T)**

This survey course examines the creation and evolution of the United States beginning with the histories of pre-contact native peoples and continuing through the present time. Through the exploration of key figures, eras and events, students develop historical thinking skills, draw conclusions from competing and contradictory sources, and recognize the role of perspective in historical documentation.

**HIST& 136****U.S. History I (T)**

Reviews the significant contributions of the Colonial Period, emphasizing political and constitutional developments from the American Revolution through the Civil War. Emphasis on the Constitution and causes and consequences of the Civil War. Includes contributions and achievements of key political/legal, scientific, cultural and military individuals.

**HIST& 137****U.S. History II (T)**

Covers U.S. development from the Post-Civil War Reconstruction period to the present. Includes political, social, and economic forces affecting the United States during the period of westward movement, industrialization, world wars, economic growth and world dominance. Covers profound technological developments of the twentieth century in relation to the world of work. Addresses the fall of the Soviet Union and the rise of Islam in relation to the U.S. as a global power.

**HUM 101****Human Relations**

Students are introduced to basic human relations theory and skills. Focus is on the importance of maintaining positive relationships in a professional and diverse workplace and functioning as an effective member of work teams.

**MATH 065****Fundamentals of Mathematics**

The course covers addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals, percentages, ratio and proportion, estimation, solving applied math problems, introduction to simple interest and compound interest. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class.

**MATH 068****Mathematics Review**

This course is designed for those students wanting a review in the fundamentals of mathematics. The course reviews addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. This course also reviews percentages, ratio and proportion, estimation and solving applied math problems. For those students that want more review there is additional review of signed numbers, geometry, units of measurement, graphs, statistics (mean, median, mode), variables, and solving equations in one variable. The review is taught through individually tailored, interactive computer instruction with the instructor available to assist students on an individual basis during the class period. A course grade of pass/fail will be assigned. OPEN ENTRY

**MATH 075****Pre-Algebra**

This course lays the foundation for the study of algebra. The topics covered include: review of whole number operations, fractions, decimals, percents, ratio and proportion; signed numbers and operations on signed numbers; real numbers; simplifying algebraic expressions; solving linear equations; geometry; units of measurement; introduction to graphs and statistics. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of Math 065 with a grade of 2.0 or higher, or a COMPASS Pre-Algebra score of 40 or greater.

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**MATH 085****Beginning Algebra**

This introductory course in algebra covers the following topics: review of selected pre-algebra topics, introduction to set theory and the real numbers; algebraic expressions; linear equations in one variable and their applications; linear inequalities; introduction to graphing; systems of two equations in two unknowns and their applications; systems of inequalities; polynomial operations; factoring polynomials; simplifying rational expression; solving quadratic equations by factoring. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH 075 or AMATH 175 with a grade of 2.0 or higher, or a COMPASS Pre-Algebra score of 60 or greater.

**MATH 095****Intermediate Algebra**

This course covers the following topics: review of selected elementary algebra topics; absolute value equations and inequalities; factoring polynomials; rational expressions; solving rational equations; rational exponents and radicals; quadratic equations and complex numbers; functions and their graphs; inverse functions; exponential and logarithmic functions; properties of logarithms; solving polynomial, quadratic-form and radical equations. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisites: completion of MATH 085 or AMATH 185 with a grade of 2.0 or higher, or a COMPASS Algebra score of 40 or greater.

**MATH 110****College Algebra**

This course covers the following topics: functions and graphing; inverse functions; logarithmic and exponential functions; properties of logarithms; theory of equations; nonlinear systems of equations; conic sections; topics in linear algebra; sequences and series. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisites: completion of MATH 95 or AMATH 195 with a grade of 2.0 or higher, or a COMPASS Algebra score of 60 or greater.

**AMATH 170****Mathematics for the Health Sciences**

Mathematics for the Health Sciences is an introductory course developed to introduce mathematics concepts related to a variety of fields in the health sciences. The content is designed at the pre-algebra level (MATH 075) to promote student success in mathematics and to develop problem-solving skills. Topics covered include: review of whole number operations, fractions, decimals, percents, ratio and proportion; signed numbers and operations on signed numbers; real numbers; simplifying algebraic expressions; solving linear equations; geometry; introduction to graphs and statistics; measurement systems (metric, apothecary, and household); conversions involving dimensional analysis; dosage calculations, mixture calculations, body surface area and body weight calculations; introductory solution calculations and a variety of health related application problems. Prerequisite: completion of Math 065 with a grade of 2.0 or higher, or a COMPASS Pre-Algebra score of 40 or greater.

**AMATH 175****Applied Mathematics for Business and Industry**

This course covers mathematics and its applications in business and industry. Instruction includes coursework in mathematics equivalent to MATH 075, with additional time devoted to studying appropriate applications, which vary based on student needs. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisites: completion of Math 065 with a grade of 2.0 or higher, or a COMPASS Pre-Algebra score of 40 or greater.

**AMATH 185****Applied Algebra for Business and Industry**

This course covers algebra and its applications in a variety of programs. Instruction includes coursework in algebra equivalent to MATH 085, with additional time devoted to studying appropriate applications, which vary based on student needs. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisites: completion of MATH 075 or AMATH 175 with a grade of 2.0 or higher, or a COMPASS Pre-Algebra score of 60 or greater.

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**AMATH 195****Advanced Applied Algebra**

This course offers students a higher level of applied algebra utilizing applications in a variety of programs. Instruction includes coursework in intermediate algebra equivalent to MATH 095, with additional time devoted to studying the appropriate applications, which vary based on student needs. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisites: completion of MATH 085 or AMATH 185 with a grade of 2.0 or higher, or a COMPASS Algebra score of 40 or greater.

**AMATH 205****Intermediate Algebra with Analytical Geometry**

This course covers sequences and series inequalities, conic sections, and the concept of limits. This course is offered through the Land Surveying/Land Survey Technician professional technical program. Please see the Land Surveying/Land Survey Technician profession technical program for prerequisites.

**MATH& 107****Contemporary Mathematics (T)**

This college level course provides a mathematical perspective of contemporary issues. The course is designed for students who do not intend to continue in mathematics or science. Topics vary but may include areas of finance, statistics, data analysis, logic, and applications relevant to humanities, social sciences and education. Content emphasis is on problem solving and quantitative reasoning. Prerequisite: completion of MATH 95 or AMATH 195 with a grade of 2.0 or higher, or a COMPASS Algebra score of 60 or greater.

**MATH 110****College Algebra**

This course covers the following topics: functions and graphing; logarithmic and exponential functions; theory of equations; nonlinear systems of equations; conic sections; topics in linear algebra; induction, sequences and series; combinatorics and probability. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH 095 with a 2.0 or higher or placement by COMPASS or Math Placement Test.

**MATH& 141****Pre-Calculus I (T)**

Elementary functions, their graphs and transformations of their graphs, with applications to mathematical modeling. Examples include linear, power, quadratic, polynomial, rational, exponential, logarithmic, composite functions, and inverse functions. Additional topics include sequences, series and mathematical induction. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH 95 or AMATH 195 with a grade of 2.0 or higher, or a COMPASS Algebra score of 60 or greater.

**MATH& 142****Pre-Calculus II (T)**

Trigonometric and inverse trigonometric functions, their graphs and transformations of their graphs, with applications to mathematical modeling. Solving trigonometric equations, the derivation and use of trigonometric identities. Polar coordinates, vectors, conic sections, rotation of axes and parametric equations. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH& 141 with a grade of 2.0 or higher, or a COMPASS College Algebra score of 60 or greater.

**MATH& 146****Introduction to Statistics (T)**

This course is an introduction to statistics and how it may be applied in the analysis of numerical data. It includes the following topics: structure of data sets, central tendency, dispersion, means, standard deviation, correlation, regression, binomial and normal probability distributions, sampling methods, confidence intervals and hypothesis testing. Prerequisites: completion of MATH 95 or AMATH 195 with a 2.0 or higher, or a COMPASS Algebra score of 60 or greater.

**MATH& 148****Business Calculus I (T)**

Introduction to Differential and Integral Calculus of elementary functions with emphasis on business applications and its use in optimization. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH& 141 with a grade of 2.0 or higher, or a COMPASS College Algebra score of 60 or greater.

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**MATH& 151****Calculus (T)**

Differential calculus. The definition and interpretation of the derivative, with applications to mathematical modeling. Derivatives of algebraic and transcendental functions. This class is taught either in traditional lecture mode or through individually tailored, interactive computer instruction that provides the student's primary method of learning, with the instructor available to assist students on an individual basis during the class period. Prerequisite: completion of MATH& 142 with a grade of 2.0 or higher, or a COMPASS Trigonometry score of 60 or greater.

**MUSC& 105****Music Appreciation (T)**

This course helps students develop an understanding of the elements and vocabulary of music while deepening their appreciation of music as a reflection of cultural tradition and innovation. Students gain tools for analysis such as the historical, political and cultural influences on musical traditions. Class activities include lectures, written materials, and a variety of listening experiences.

**NUTR& 101****Human Nutrition (T)**

This course provides students with information pertaining to the functions of nutrients in the body and the physiologic processes involved in digestion and absorption. Topics covered include anatomy and physiology of digestion and absorption; specific utilization of carbohydrates, protein, and fats; and vitamin and mineral supplements. Other topics include factors that govern nutrient requirements, and the impact of diet on health and disease. Basic principles of chemistry, biology, and physiology are applied to the study of nutrition. This course is suggested for students majoring in nursing or other health-related areas.

**POLS 150****Contemporary World Issues (T)**

Topics will include currently relevant issues such as the rise of Islamic Fundamentalism and American defense policy, the debate between free market and socialist economic theories, globalization and the role of oil and energy technologies, the rise of China and its relations with other Asian countries and the U.S., the ongoing crises in Africa, nuclear proliferation and other weapons of mass destruction. Immigration and demographics will be covered. The role of the United Nations and international law are examined within the framework of evolving ideas about national sovereignty. This course will maintain some flexibility to prioritize emergent issues as the quarter develops.

**POLS& 202****American Government (T)**

This course explores the structure and dynamics of American national government. The course provides a broad-based introduction to the ideas and institutions that have shaped politics in the contemporary United States. Special areas of focus will include: the Constitution and the debates of the founding era, the institutions of modern American government, and the political behavior of the American mass public. The course will draw inspirationally on documents from America's Revolutionary and Civil War periods as well as on key historical and contemporary Supreme Court opinions, Congressional laws, and Presidential policy papers. This course will also analyze how the dynamics of regional and global forces have impacted on domestic politics and American government, informing the shaping of its attitudes and policies to the rest of the world.

**PSYC& 100****General Psychology (T)**

General Psychology surveys the knowledge and methods of the discipline of psychology. Emphasis is placed upon application of psychological knowledge to daily situations, and upon accessing and assessing information from a variety of sources about behavior. Skills in scientific reasoning and critical thinking are developed during this course. Areas of psychology to be included are: research methods, neuroscience, human development, sensation, perception, consciousness, learning, memory, cognitive processes, intelligence, motivation, emotion, personality, psychological disorders, psychotherapy, stress and health, and social psychology. Basic computer and keyboarding skills strongly recommended.

**PSYC& 200****Developmental Psychology (T)**

This course covers the concepts of human life span development in psychology and research from the prenatal stage to end of life experiences. Life span development includes socio-emotional, cognitive, and physiological development. Included are the influences on human development by such factors as biology, life experiences, family, and culture. Each individual, although unique follows a process that is affected by primary caregivers, siblings, extended family, teachers, friends, partners, and events. Emphasis will be on understanding human development and the influences of family and culture that includes ethnicity, beliefs, family structure, traditions, and gender.

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**PHYS& 121****General Physics I (T)**

This course is the first in a three quarter sequence of algebra-based physics. The course provides an introduction to mechanics, kinematics, energy, and conservation principles. Laboratory investigations, technical writing, problem solving using both physical and mathematical reasoning strategies and the scientific method of inquiry skills will be emphasized. Laboratory included. Prerequisite: MATH&141.

**PHYS& 122****General Physics II (T)**

This course is the second in a three quarter sequence of algebra-based physics. The course provides an introduction to mechanical properties of matter, fluid mechanics, wave phenomena, and thermodynamics. Laboratory investigations, technical writing, problem solving using both physical and mathematical reasoning strategies and the scientific method of inquiry skills will be emphasized. Laboratory included. Prerequisite: PHYS& 121.

**PHYS& 123****General Physics III (T)**

This course is the third in a three quarter sequence of algebra-based physics. The course provides an introduction to electricity, magnetism, optics and modern physics. Laboratory investigations, technical writing, problem solving using both physical and mathematical reasoning strategies and the scientific method of inquiry skills will be emphasized. Laboratory included. Prerequisite: PHYS& 122.

**SOC& 101****Survey of Sociology (T)**

Sociology is the study of human interaction. Students study modern society and the influences of culture, socialization, inequality and power. Topics include gender, class, race and ethnicity, conflict, and marriage and the family.

**SPAN& 121****Spanish I (T)**

This is the first course of a series of classes that teaches the fundamentals of Spanish as a second language. While the course focuses on speaking and verbal comprehension, reading, writing and Hispanic culture are also integral to the class.

**SPAN& 122****Spanish II (T)**

This is the second course of a series of classes that teaches the fundamentals of Spanish as a second language. While the course focuses on speaking and verbal comprehension, reading, writing and Hispanic culture are also integral to the class. Prerequisite: SPAN& 121

**SPAN& 123****Spanish III (T)**

This is the third course of a series of classes that teaches the fundamentals of Spanish as a second language. While the course focuses on speaking and verbal comprehension, reading, writing and Hispanic culture are also integral to the class. Prerequisite: SPAN& 122

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