

stacks, queues, heaps, trees, and hash tables; learn when to use which of the available dynamic memory data structures. Tools for analyzing and predicting run time and memory usage are introduced, as is Big-O notation. A variety of sort algorithms are reviewed and analyzed for best, worst, and average case performance, and are compared with tree traversal algorithms. Develop increased sophistication in object-oriented basics such as inheritance, encapsulation, design of abstract data types and polymorphism, and gain experience by working on larger programs and managing large, multi-programmer projects. Laboratory instruction includes program development and execution. Mobile and database applications will be introduced.

CSU, UC

COUNSELING (COUN)

095 ACADEMIC AND FINANCIAL AID PLANNING .5 UNIT

.5 hour lecture

This course will familiarize students with: (a) financial aid resources available to them to meet educational expenses; (b) Cuyamaca College's Financial Aid Satisfactory Academic Progress Policy; (c) federal/state regulations for determining and maintaining eligibility for financial aid eligibility; (d) the student's rights and responsibilities in receiving aid. **Pass/No Pass only. Non-degree applicable.**

101 INTRODUCTION TO COLLEGE .5-1 UNIT

.5-1 hour lecture

An introductory course designed to assist students with a successful transition to college. An overview of student responsibilities, college expectations, college and career success strategies will be discussed. Students will learn about the college; its facilities, services, academic regulations, general education requirements, and certificate, degree and transfer options. Students will receive preliminary guidance in education planning. **Pass/No Pass only. Non-degree applicable.**

110 CAREER DECISION MAKING 1 UNIT

1 hour lecture

Utilization of a group seminar structure to explore and research various career and major options. Lecture, group discussion, experiential activities, and vocational assessment tools will be utilized to assist students in identifying their individual interests, values, and personality styles. Students will conduct educational and career research to relate their vocational assessment results to setting academic and career goals.

CSU

120* COLLEGE AND CAREER SUCCESS 3 UNITS

3 hours lecture

This course teaches success strategies to enhance academic and lifelong learning. The course also discusses the importance of looking at the human being as an integrated physiological, social and psychological organism. Students will explore personality types and examine their own interests and values as a way to increase self-understanding and select an appropriate major and career. Students will identify their learning style and apply psychological principles of learning, memory, motivation and stress management to academic study strategies. Students will also apply life management techniques, such as time and money management, to accomplish personal goals. Students will examine the adult

stages of development and develop a plan for wellness and living a long and healthy life. Additionally, students will be given the opportunity to practice creative and critical thinking techniques.

CSU, CSU GE, UC

130 STUDY SKILLS AND TIME MANAGEMENT 1 UNIT

1 hour lecture

Designed to prepare students to adjust to the academic community by learning to plan and study effectively within given time limitations. Strategies include: time management, goal setting, textbook mastery, library research skills, note-taking, exam preparation, stress reduction, and educational planning.

CSU

140 SELF AWARENESS AND INTERPERSONAL RELATIONSHIPS 3 UNITS

3 hours lecture

This course analyzes the cognitive, behavioral, humanistic, and existential theories as they relate to the awareness of the self and the dynamics of healthy relationships. Using many of the skills suggested by the above theories, students will define and utilize personal achievement techniques, basic principles of healthy functioning, and effective coping strategies that facilitate the process of intra and interpersonal change and relationships. Utilizing the major theories in the field of psychology and psychotherapy, the development of a healthy and strong identity and an empowered sense of self will be explored.

CSU, CSU GE

150* TRANSFER SUCCESS 1 UNIT

1 hour lecture

This course provides the information needed for a student to transfer to a baccalaureate institution, including strategies to achieve academic success and research skills essential to developing a comprehensive educational plan. Topics include the community college transfer process, selection of major, student support services, comparing and contrasting a variety of universities, and clarification of one's educational goal.

CSU, UC

*120 and 150 combined; maximum UC credit, one course

ECONOMICS (ECON)

110 ECONOMIC ISSUES AND POLICIES 3 UNITS

3 hours lecture

A one-semester course that provides general elementary knowledge of basic economic concepts and serves as an introduction to more advanced economics courses. Surveys current economic subjects including consumer economics, inflation, recession, competition, monopoly, world trade and competing economic systems. *Not open to students with credit in ECON 120 or 121.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

120 PRINCIPLES OF MICROECONOMICS 3 UNITS

C-ID ECON 202

Prerequisite: Appropriate mathematics placement
3 hours lecture

Introductory course focusing on aggregate economic analysis. Topics include: market systems; economic cycles including recession, unemployment and inflation; national income accounts; macroeconomic equilibrium; money and financial institutions; monetary and fiscal

policy; and international trade and finance. Includes some use of graphs and elementary algebra.

AA/AS GE, CSU, CSU GE, IGETC, UC

121 PRINCIPLES OF MICROECONOMICS 3 UNITS

C-ID ECON 201

Prerequisite: Appropriate mathematics placement

3 hours lecture

Principles of economic analysis and decision-making from the viewpoint of the individual consumer, worker, and firm. Focuses on the price system allocation of resources and income, supply and demand analysis, the structure of American industry, and applications to current economic policy and problems. Includes some use of graphs and elementary algebra.

AA/AS GE, CSU, CSU GE, IGETC, UC

EDUCATION (ED)

151 EFFECTIVE TUTORING STRATEGIES 1 UNIT

1 hour lecture

This course is designed to prepare students for tutoring college students. Provides an overview of effective learner-centered, process oriented, tutoring strategies and practices. Topics include basic study skills, the tutoring cycle, learning styles, learning disabilities, behaviors and stresses that affect learning, communication skills, and diversity/cultural awareness. Students interested in working in the Tutoring Center must have a grade of "B" or higher in subject matter to qualify. **Pass/No Pass only. Non-degree applicable.**

200 TEACHING AS A PROFESSION 3 UNITS

C-ID EDUC 200

3 hours lecture

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, kindergarten through grade 12 (K-12). Career exploration, historical and philosophical foundations of education, critical issues, California's content standards and frameworks, teaching performance standards, and conditions for effective learning are discussed. A minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher is required. *Limitation on enrollment: must meet health and safety requirements for public school field experience placement.*

CSU, UC

ELECTRONICS TECHNOLOGY (ET)

110 INTRODUCTION TO ELECTRICITY AND ELECTRONICS 4 UNITS

3 hours lecture, 3 hours laboratory

This course includes the laws of physics as they relate to electricity and electronics. Topics include the history of electrical science, atomic structure, basic electrical laws, DC and AC circuits, semiconductors, integrated circuits, amplifiers, waveforms, electrical test equipment, circuit construction, and electrical safety. Knowledge of basic algebra and how to use scientific calculators is highly desirable.

AA/AS GE, CSU, CSU GE