

Technical Classes

Course Name	Course Number
Arts and Sciences	
An Introduction to Nonlinear Systems: Chaos	APPM 3010-3
Scientific Computing in Matlab	APPM 3050-3
Discrete Applied Mathematics	APPM 3170-3
Matrix Methods and Applications	APPM 3310-3
Applied Probability	APPM 3570-3
Introduction to Operations Research	APPM 4120-3
Methods in Applied Mathematics: Fourier Series and Boundary Value Problems	APPM 4350-3
Methods in Applied Mathematics: Complex Variables and Applications	APPM 4360-3
Modeling in Applied Mathematics	APPM 4380-3
Introduction to Mathematical Statistics	APPM 4520-3
Introduction to Time Series	APPM 4540-3
Markov Processes, Queues, and Monte Carlo Simulations	APPM 4560-3
Statistical Methods	APPM4570-3
Statistical Applications: Software and Methods	APPM 4580-3
Intermediate Numerical Analysis 1	APPM 4650-3
Intermediate Numerical Analysis 2	APPM 4660-3
Open Topics in Applied Mathematics	APPM 4720-3
Accelerated Introduction Astronomy 1	ASTR 1030-4
Accelerated Introduction Astronomy 2	ASTR 1040-4
Black Holes	ASTR 2030-3
Introduction to Scientific Data Analysis and Computing	ASTR 2800-3
Extraterrestrial Life	ASTR 3300-3
Observations and Instrumentation 1	ASTR 3510-4
Observations and Instrumentation 2	ASTR 3520-4
Plants and Their Atmospheres	ASTR 3720-3
Astrophysics 1 - Stellar and Interstellar	ASTR 3730-3
Cosmology and Relativity	ASTR 3740-3
Planets, Moons, and Rings	ASTR 3750-3
Astrophysics 2 - Galactic and Extragalactic	ASTR 3830-3
Aviation Metrology	ATOC 3180-3
Analysis of Climate and Weather Observation	ATOC 3300-3
Air Chemistry and Pollution	ATOC 3500-3
Principles of Climate	ATOC 3600-3
Planets and Their Atmospheres	ATOC 3720-3
Oceanography	ATOC 4215-3
Introduction to Atmospheric Physics and Dynamics	ATOC 4720-3
Desert Meteorology and Climate	ATOC 4750-3
Modern Inorganic Chemistry	CHEM 4011-3
Inorganic Laboratory	CHEM 4021-3
Instrumental Analysis	CHEM 4171-3
Instrumental Analysis Laboratory with Environmental Emphasis	CHEM 4181-4
Physical Chemistry with Biochemistry Applications 1	CHEM 4411-3
Physical Chemistry with Biochemistry Applications 2	CHEM 4431-3
Physical Chemistry 2	CHEM 4531-3
Physical Chemistry Laboratory for Engineers	CHEM 4541-2
Physical Chemistry Lab 1	CHEM 4581-1
Physical Chemistry Lab 2	CHEM 4591-2

Survey of Biochemistry	CHEM 4611-3
General Biochemistry 1	CHEM 4711-3
General Biochemistry 2	CHEM 4731-3
Current Topics in Biochemical Research	CHEM 4751-3
Biochemistry Laboratory	CHEM 4761-4
General Biology 1	EBIO 1210-3
General Biology 2	EBIO 1220-3
General Biology Laboratory 1	EBIO 1230-1
General Biology Laboratory 2	EBIO 1240-1
Environmental Issues and Biology	EBIO 2010 (1-3)
Principles of Ecology	EBIO 2040-4
Genetics: Molecules to Populations	EBIO 2070-4
Introduction to Horticulture	EBIO 2500-4
Plants and Society	EBIO 2590-2
Honors Genetics Molecules to Population	EBIO 2670-5
Conservation Biology	EBIO 3040-4
Evolutionary Biology	EBIO 3080-4
Population and Community Ecology	EBIO 3110-3
Arctic and Alpine Ecology	EBIO 3170 (3-4)
Arctic and Alpine Ecology Lab	EBIO 3175-1
Global Ecology	EBIO 3180-3
Tropical Marine Ecology	EBIO 3190-3
Animal Behavior	EBIO 3240-4
Ecosystem Ecology	EBIO 3270-3
Microbiology	EBIO 3400-4
Plant Biodiversity and Evolution	EBIO 3500-4
Plant Anatomy and Development	EBIO 3510-4
Plant Systematics	EBIO 3520-4
Functional Plant Biology	EBIO 3530-4
Parasitology	EBIO 3630-4
Honors Evolutionary Biology	EBIO 3680-5
Animal Diversity: Invertebrates	EBIO 3770-4
Stream Biology	EBIO 4020 -3
Limnology	EBIO 4030-3
Landscape Ecology	EBIO 4060-3
Advanced Ecology	EBIO 4100-3
Advanced Ecology	EBIO 4110-3
Advanced Ecology	EBIO 4120 (2-4)
Plant Ecology	EBIO 4140 -3
Techniques in Ecology	EBIO 410 (1-2)
Introduction to Biogeochemistry	EBIO 4160-3
The Scientific Basis for Ecosystem Management of Public Lands	EBIO 4175-3
Molecular Systematics and Evolution	EBIO 4290-3
Biometry	EBIO 44410-4
Insect Biology	EBIO 4660-4
Biology of Amphibians and Reptiles	EBIO 4740-3
Ornithology	EBIO 4750-4
Mammalogy	EBIO 4760-4
Environmental Systems 1- Climate and Vegetation	GEOG 1001-4
Environmental Systems 2 - Landscapes and Water	GEOG 1011-4
Mountain Geography	GEOG 3251-3
Analysis of Climate and Weather Observation	GEOG 3301-3

Biogeography	GEOG 3351-3
Introduction to Hydrology	GEOG 3511-4
Principles of Climate	GEOG 3601-3
Biometeorology	GEOG 4201-3
Physical Climatology - Principles	GEOG 4211-3
Physical Climatology/Field Methods	GEOG 4231-4
Principles of Geomorphology	GEOG 4241-4
Fluvial Geomorphology	GEOG 4251-4
Mountain Geomorphology	GEOG 4291 (3-4)
Watershed Biogeochemistry	GEOG 4311-3
Snow Hydrology	GEOG 4321 (3-4)
Mountain Climatology	GEOG 4331 (3-4)
Forest Geography: Principles and Dynamics	GEOG 4371-3
Soils Geography	GEOG 4401-3
Methods of Soil Analysis	GEOG 4411-3
Water Resources and Water Management of Western United States	GEOG 4501-3
Introduction to Geology 1	GEOL 1010-3
Introduction to Geology 2	GEOL 1020-3
Introduction to Geology Laboratory 1	GEOL 1030-1
Geology of Colorado	GEOL 1040-3
Global Change An Earth Science Perspective	GEOL 1060-3
Environmental Geology	GEOL 2100-3
Physical Science of the Earth System	GEOL 2110-4
Introduction to Mineralogy	GEOL 3010-3
Petrology	GEOL 3020-3
Statistics for Earth Sciences	GEOL 3023-4
Introduction to Hydrogeology	GEOL 3030-3
Global Change: The Recent Geological Record	GEOL 3040-3
Computer Assisted Geologic Techniques	GEOL 3050-2
Introduction to Oceanography	GEOL 3070-3
Structural Geology	GEOL 3120-4
Extraterrestrial Life	GEOL 3300-3
Introduction to Geochemistry	GEOL 3320-3
Paleobiology	GEOL 3410-3
Sedimentology and Stratigraphy	GEOL 3430-4
Earth Resources and the Environment	GEOL 3500-3
Environmental Issues in Geosciences	GEOL 3520-3
Evolution of Life: The Geological Record	GEOL 3720-3
Natural Catastrophes and Geologic Hazards	GEOL 3950-3
Oceanography	GEOL 4060-4
Remote Sensing of the Environment	GEOL 4093-4
X-Ray Crystal Chemistry	GEOL 4100-3
Principals of Geophysics	GEOL 4130-3
Introduction to Biochemistry	GEOL 4160-3
Advanced Mineralogy	GEOL 4241-4
Introduction to Ore Deposits	GEOL 4250-4
Mountain Geomorphology	GEOL 4291 (3-4)
Glacial Geology	GEOL 4360-3
Petroleum Geology	GEOL 4540-4
Glaciology	GEOL 4640-3
Isotope Geology	GEOL 4670-3
Igneous and Metamorphic Field Geology	GEOL 4711-2

Structural Field Geology	GEOL 4712-2
Field Geophysics	GEOL 4714-2
Field Techniques in Surficial Geology and Geohydrology	GEOL 4715-2
Environmental Field Geochemistry	GEOL 4716-2
Field Seminar in Geology and Tectonics	GEOL 4717-2
Introduction to Integrative Physiology	IPHY 1010-3
Cell Physiology	IPHY 3060-4
Environmental Animal Physiology	IPHY 3130-3
Introduction to Human Anatomy	IPHY 3410-3
Human Anatomy Laboratory	IPHY 3415-2
Nutrition, Health, and Performance	IPHY3420-3
Human Physiology	IPHY 3430-3
Human Physiology Laboratory	IPHY 3435-2
Comparative Animal Physiology	IPHY 3450-5
Comparative Vertebrate Anatomy	IPHY 3460-5
Applied Clinical Research	IPHY 3500-2
Dynamics of Motor Learning	IPHY 3660-3
Brain and Behavior	IPHY 3730-3
Forensic Biology	IPHY 3800-3
Forensic Biology Laboratory	IPHY 3810-1
Endocrinology	IPHY 4440-3
Biology of Human Reproduction	IPHY 4440-3
Comparative Reproduction	IPHY 4470-3
Histology: Cells and Tissues	IPHY 4500-4
Biomechanics	IPHY 4540-5
Immunology	IPHY 4600-4
Exercise Physiology	IPHY 4650-5
Neurophysiology	IPHY 4720-4
Motor Control	IPHY 4730-3
Theory of Motor Skills Learning	IPHY 4740-3
Exercise and Sport Psychology	IPHY 4750-3
Mind-Body Health	IPHY 4770 (3-4)
Language Sound Structures	LING 3100-3
Morphology and Syntax	LING 4420-3
Introduction to Theory of Numbers	MATH 3130-3
Introduction to Linear Algebra	MATH 3130-3
Abstract Algebra 1	MATH 3140-3
Combinatorics 1	MATH 3170-3
Euclidean and Non-Euclidean Geometries	MATH 3210-3
Foundations of Mathematics	MATH 4000-3
Introduction to Operations Research	MATH 4120-3
Abstract Algebra 2	MATH 4140-3
Geometry of Curves and Surfaces	MATH 4230-3
Introduction to Analysis	MATH 4310-3
Multivariable Analysis	MATH 4320-3
Fourier Analysis	MATH 4330-3
Ordinary Differential Equations	MATH 4430-3
Mathematics and Coding and Cryptography	MATH 4440-3
Introduction to Complex Variables	MATH 4450-3
Partial Differential Equations 1	MATH 4470-3
Introduction to Probability Theory	MATH 4510-3
Introduction to Mathematical Statistics	MATH 4520-3

Introduction to Mathematical Statistics	MATH 4520-3
Introduction to Time Series	MATH 4540-3
Intermediate Numerical Analysis	MATH 4650-3
General Physics 3	PHYS 2130-3
Classical Mechanics and Mathematical Methods 1	PHYS 2210-3
Classical Mechanics and Mathematical Methods 2	PHYS 3210-3
Quantum Mechanics and Atomic Physics 1	PHYS 3220-3
Principles of Electricity and Magnetism 1	PHYS 3310-3
Principles of Electricity and Magnetism 2	PHYS 3320-3
Electronics for the Physical Sciences	PHYS 3330-2
Introductory Research in Optical Physics	PHYS 3340-3
Analytical Techniques for Materials Analysis	PHYS 4110-3
Biological Electron Microscopy: Principles and Recent Advances	PHYS 4130-2
Plasma Physics	PHYS 4150-3
Thermodynamics and Statistical Mechanics	PHYS 4230-3
Introduction to Solid State Physics	PHYS 4340-3
Quantum Mechanics and Atomic Physics 2	PHYS 4410-3
Optics	PHYS 4510-3
Computational Physics	PHYS 4801-3

Business

Corporate Financial Reporting 1	ACCT 3220-3
Corporate Financial Reporting 2	ACCT 3230-3
Cost Management	ACCT 3320-3
Advanced Financial Accounting	ACCT 4240-3
Financial Statement Analysis	ACCT 4250-3
Advanced Cost Management	ACCT 4330-3
Personal Financial Training	ACCT 4430-3
Income Taxation	ACCT 4440-3
Accounting Information Systems	ACCT 4540-3
Auditing and Assurance Services	ACCT 4620-3
International Accounting	ACCT 4700-3
Accounting for Government and Nonprofit Organizations	ACCT 4800-3
Accounting and Financial Analysis	BCOR 2000-4
Introductory Finance	BCOR 2200-3
Adding Value with Management	BCOR 2300-3
Fundamentals of Marketing	BCOR 2400-3
Introduction to Systems	BCOR 2500-3
Advanced Business Law	BSLW 4120-3
Entrepreneurial Environments	ESBM 3700-3
Entrepreneurial Finance	ESBM 4570-3
Engineering Entrepreneurship	ESBM 4820-1
Corporate Finance	FNCE 3010-3
Financial Markets and Institutions	FNCE 3020-3
Financial Institutions Management	FNCE 4000-3
Applied Business Finance	FNCE 4020-3
Investment and Portfolio Management	FNCE 4030-3
Derivative Securities	FNCE 4040-3
Capital Investment Analysis	FNCE 4050-3
International Financial Management	INBU 4200-3
International Business and Management	INBU 4300-3
Critical Leadership Skills	MGMT 3030-3

Strategic Management	MGMT 4000-3
International Operations Management	MGMT 4070-3
Environmental Operations	MGMT 4080-3
Project Management Systems	MGMT 4085-3
IT and Business Strategy	MGMT 4090-3
Buyer Behavior	MKTG 3250-3
Marketing Research	MKTG 3350-3
Sales Management	MKTG 4150-3
Product Strategy	MKTG 4250-3
Services Marketing Strategy	MKTG 4350-3
International Marketing	MKTG 4400-3
Advertising Management	MKTG 4500-3
Advertising and Promotion Management	MKTG 4550-3
Institutional Relationships and Strategy	MKTG 4650-3
Marketing Policies and Strategies	MKTG 4800-3
Visual-Language Programming	SYST 2010-3
Systems Thinking	SYST 3000-3
Management of Service Operations	SYST 3030-3
Business Intelligence	SYST 3100-3
Enterprise Technologies	SYST 3101-3
IT and Business Strategy	SYST 4040-3
Supply Chain Management	SYST 4050-3
Managing Business Procedure	SYST 4060-3
Project Management Systems	SYST 4080-3
Design of Usable Business Systems	SYST 4510-3

Engineering and Applied Sciences

Gateway to Space	ASEN 2500-3
Spacecraft Design	ASEN 4148-3
Space Habitat Design	ASEN 4158-3
Large Space Structures Design	ASEN 4218-3
Computer Aided Control System Design	ASEN 4238-3
Computer Aided Control System Design 2	ASEN 4248-3
Introduction to Biomedical Engineering	ASEN 3116-3
Neural Signals and Functional Brain Imaging	ASEN 4216-3
Neural Systems and Physiological Control	ASEN 4426-3
Brains, Minds, Computers	ASEN 4436-3
Global Positioning Systems Applications	ASEN 4090-3
Remote Sensing Data Analysis	ASEN 4337-3
Aerospace Materials	ASEN 4012-3
Computer Analysis of Structures	ASEN 4338-3
Automatic Control Systems	ASEN 4114-3
Foundations of Propulsion	ASEN 4013-3
Engineering Systems for Buildings	AREN 2050-3
Mechanical Systems for Buildings	AREN 3010-3
Environmental Systems for Buildings 1	AREN 3050-3
Environmental Systems for Buildings 2	AREN 3060-3
Building Energy Laboratory	AREN 3130-3
Illumination Laboratory	AREN 3140-3
Illumination 1	AREN 3540-3
HVAC Design 1	AREN 4110-3
Exterior Lighting Systems	AREN 4540-3

Illuminations 2	AREN 4550-3
Luminous Radiative Transfer	AREN 4560-3
Building Electrical Systems Design 1	AREN 4570-3
Daylighting	AREN 4580-3
Computer Graphics in Lighting Engineering	AREN 4590-3
Design of Masonry Structures	AREN 4315-2
Introduction to Building Construction	AREN 3406-3
Construction Costs and Estimating	AREN 4416-3
Cost Engineering	AREN 4420-3
Construction Planning and Scheduling	AREN 4466-3
Engineering Drawing	AREN 1017-2
Descriptive Geometry	AREN 1027-2
Sustainability and the Built Environment	CVEN 4700-3
HVAC System Controls	CVEN 5010-3
Building Energy Audits	CVEN 5020-3
Fundamentals of Environmental Engineering	CVEN 3414-3
Water and Waste water Treatment	CVEN 3424-3
Introduction to Applied Ecology	CVEN 3434-3
Water Chemistry	CVEN 3453-4
Environmental Engineering Design	CVEN 4434-3
Hazardous and Industrial Waste Management	CVEN 4474-3
Introduction to Environmental Microbiology	CVEN 4484-3
Structural Analysis	CVEN 3525-3
Analysis of Framed Structures	CVEN 4525-3
Steel Design	CVEN 4545-3
Reinforced Concrete Design	CVEN 4555-3
Timber Design	CVEN 4565-2
Introduction to Construction	CVEN 3246-3
Construction Equipment and Methods	CVEN 3256-3
Project Administration	CVEN 4266-3
Probability, Statistics and Decision	CVEN 3227-3
Engineering Contacts	CVEN 4087-3
Engineering Economy and System Design	CVEN 4147-3
Numerical Methods in Civil Engineering	CVEN 4537-3
Engineering Geology	CVEN 3698-3
Geotechnical Engineering 1	CVEN 3708-3
Geotechnical Engineering 2	CVEN 3718-3
Mechanics and Dynamics of Glaciers	CVEN 4718-3
Foundation Engineering	CVEN 4728-3
Computer Science 2: Data Structures	CSCI 2270-4
Introduction to Artificial Intelligence	CSCI 3202-3
Cognitive Science	CSCI 3702
Artificial Intelligence 2	CSCI 4202-3
Operating Systems	CSCI 3753-4
UNIX System Administration	CSCI 4113-3
Network Systems	CSCI 4273-3
Network Security	CSCI 4473-3
Computer Organization	CSCI 4593-3
Computer Performance Modeling	CSCI 4753-3
Principles of Programming Languages	CSCI 3656-3
Chaotic Dynamics	CSCI 4446-3
High Performance Scientific Computing 1	CSCI 4576-4

High Performance Scientific Computing 2	CSCI 4586-4
Database and Information Systems	CSCI 3287-3
Software Engineering Methods and Tools	CSCI 3308-3
Software Engineering Project 2	CSCI4218-4
Object Oriented Analysis and Design	CSCI 4448-3
User Interface Design	CSCI 4838-3
Introduction to Digital and Analog Electronics	ECEN 1400-3
Computers as Components	ECEN 2120-5
Circuits/Electronics 1	ECEN 2250-5
Circuits/Electronics 2	ECEN 2260-5
Electrical/Electronic Circuits Non-Major	ECEN 3030-3
Digital Logic	ECEN 3100-5
Statistical thermodynamics	ECEN 3120-3
Energy Conservation 1	ECEN 3170-3
Circuits/Electronics 3	ECEN 3250-5
Linear Systems	ECEN 3300-5
Semiconductor Devices	ECEN 3320-3
Electromagnetic Fields and Waves	ECEN 3400-5
Electromagnetic Waves and transmission	ECEN 3410-3
Introduction to Probability Theory	ECEN 3810-3
Neural Network Design	ECEN 4120-3
Neural Signals and Functional Brain Imaging	ECEN 4811-3
Neural Systems and Physiological Control	ECEN 4821-3
Brains, Minds, Computers	ECEN 4831-3
Communication Theory	ECEN 4242-3
Digital Signal Processing Laboratory	ECEN 4532-3
Introduction to Digital Filtering	ECEN 4632-3
Communication Laboratory	ECEN 4652-2
Introduction to Compiler Construction	ECEN 4553-3
Electrical and Computer Engineering Capstone Design Laboratory	ECEN 4573-3
Software System Development	ECEN 4583-3
Computer Organization	ECEN 4593-3
Embedded System Design	ECEN 4613-3
Real Time Embedded Systems	ECEN 4623-3
Hybrid Embedded System	ECEN 4633-2
Discrete Mathematics for Computer Engineers	ECEN 4703-3
Computer Performance Modeling	ECEN 4753-3
Transmission Laboratory	ECEN 4634-2
Introduction to Solid State	ECEN 4345-3
Microstructures Laboratory	ECEN 4375-3
Introduction to Optical Electronics	ECEN 4645-3
Photonics	ECEN 4106-3
Undergraduate Optics Laboratory	ECEN 4606-3
Optoelectric System Design	ECEN 4616-3
Energy Conservation 2	ECEN 4167-3
Power Electronics Laboratory	ECEN 4517-2
Introduction to Power Electronics	ECEN 4797-3
Analog IC Design	ECEN 4827-3
Electronics 4	ECEN 4228-3
Very Large Scale Integrated System Design	ECEN 4109-3
Project Management System	EMEN 4030-3
Invention and Innovation	GEEN 3400-3

Computational Methods	MCEN 3030-3
Engineering Statistics	MCEN 4120-3
Air Pollution Control Engineering	MCEN 4131-3
Indoor Air Pollution	MCEN 4141-3
Thermal System Design	MCEN 4042-3

Environmental Studies

The Campus and the Biosphere	ENVS 3001-3
Conservation Biology	ENVS 3040-4
Energy and the Environment	ENVS 3070-3
Environmental Issues in Geosciences	ENVS 3520-3
Principles of Climate	ENVS 3600-3
Introduction to Biogeochemistry	ENVS 4160-3
Biometeorology	ENVS 4201-3