

# Chemical & Biological Engineering and Chemical Engineering

Engineering Technical Electives (including CHEN 3000+ Technical Electives) are listed first, followed by General Technical Electives. (All Engineering Technical Electives can also be used for General Technical Elective credit.)

## ENGINEERING TECH ELECTIVES

AREN 1027 Engineering Drawing  
AREN 1316 Intro to AREN  
AREN 2050 Building Materials and Systems  
AREN 3010 Energy Efficient Buildings  
AREN 3050 Environmental Systems for Buildings 1  
AREN 3060 Environmental Systems for Buildings 2  
AREN 3140 Illumination Laboratory  
AREN 3540 Illumination 1  
AREN 4010 Energy System Modeling and Control  
AREN 4035 Architectural Structures 1  
AREN 4045 Architectural Structures 2  
AREN 4110 HVAC Design 1  
AREN 4130 Optical Design for Illumination and Solid-State Lighting  
AREN 4315 Design of Masonry Structures  
AREN 4317 Architectural Engineering Design  
AREN 4530 Advanced Lighting Design  
AREN 4540 Exterior Lighting Systems  
AREN 4550 Illumination 2  
AREN 4560 Luminous Radiative Transfer  
AREN 4570 Building Electrical Systems Design 1  
AREN 4580 Daylighting  
AREN 4590 Computer Graphics in Lighting Engineering  
AREN 4830 The Future of Solid-State Lighting  
AREN 4890 Sustainable Building Design

ASEN 1000 Intro to ASEN  
ASEN 1400 Gateway to Space  
ASEN 1969 Pathway to Space  
ASEN 3112 Structures  
ASEN 3128 Aircraft Dynamics  
ASEN 3200 Orbital Mechanics/Attitude Dynamics and Control  
ASEN 3300 Aerospace Electronics and Communications  
ASEN 4012 Aerospace Materials  
ASEN 4013 Foundations of Propulsion  
ASEN 4090 Global Positioning Systems Applications  
ASEN 4114 Automatic Control Systems  
ASEN 4123 Vibration Analysis  
ASEN 4128 Human Factors in Engineering and Design  
ASEN 4138 Aircraft Design  
ASEN 4218 Large Space Structures Design  
ASEN 4338 Computer Analysis of Structures

ASEN 4519 Climate Change and Engineering

CHEN 1300 Intro to Chemical Engineering

CHEN 1400 Drugs, Driving, Dynamic Processes

CHEN 2840 Independent Study

CHEN 3660 Energy Fundamentals

CHEN 3838 Special Topics

CHEN 3840 Independent Study

CHEN 4440 Materials (CBEN only)

CHEN 4450 Polymer Chemistry

CHEN 4460 Polymer Engineering

CHEN 4630 Intellectual Property Law

CHEN 4650 Particle Technology

CHEN 4800 Bioprocess Engineering (Focus TE for CBEN; CHEN 3000+ TE for CHEN)

CHEN 4801 Pharmaceutical Biotechnology (Focus TE for CBEN; CHEN 3000+ TE for CHEN)

CHEN 4802 Tissue Engineering and Medical Devices (Focus TE for CBEN; CHEN 3000+ TE for CHEN)

CHEN 4803 Metabolic Engineering (Focus TE for CBEN; CHEN 3000+ TE for CHEN)

CHEN 4805 Biomaterials (CHEN only)

CHEN 4820 Biochemical Separations (CHEN only)

CHEN 4836 Nanomaterials

CHEN 4838 Electrochemical Engineering

CHEN 4838 Protein and Enzyme Engineering (Focus TE for CBEN; CHEN 3000+ TE for CHEN)

CHEN 4840 Independent Study

COEN 1400 Project Design

COEN 1500 Intro to Engineering

COEN 3210 Climate Change and Engineering

CSCI 1200 Intro to Computational Thinking (Python)

CSCI 1300 Computer Science1: Starting Computing (C++)

CSCI 2270 Computer Science 2: Data Structures

CSCI 2400 Computer systems

CSCI 2824 Discrete Structures

CSCI 3002 Fundamentals of Human Computer Interaction

CSCI 3104 Algorithms

CSCI 3155 Principles of Programming Languages

CSCI 3202 Intro to Artificial Intelligence

CSCI 3287 Design and Analysis of Database Systems

CSCI 3302 Intro to Robotics

CSCI 3308 Software Development Methods and Tools

CSCI 3434 Theory of Computation

CSCI 3656 Numerical Computation

CSCI 3702 Cognitive Science

CSCI 3753 Design and Analysis of Operating Systems

CSCI 4113 UNIX System Administration

CSCI 4229 Computer Graphics

CSCI 4239 Advanced Computer Graphics

CSCI 4273 Network Systems

CSCI 4302 Advanced Robotics  
CSCI 4308 Software Engineering Project1  
CSCI 4314 Dynamic Models in Biology  
CSCI 4318 Software Engineering Project 2  
CSCI 4446 Chaotic Dynamics  
CSCI 4448 Object-Oriented Analysis and Design  
CSCI 4555 Compiler Construction  
CSCI 4576 High-Performance Scientific Computing  
CSCI 4593 Computer Organization  
CSCI 4753 Computer Performance Modeling  
CSCI 4809 Computer Animation  
CSCI 4830 Sustainable Computing

CVEN 1317 Intro to CVEN  
CVEN 2012 Intro to Geomatics  
CVEN 2121 Analytical Mechanics 1  
CVEN 3022 Construction Surveying  
CVEN 3032 Photogrammetry  
CVEN 3111 Analytical Mechanics 2  
CVEN 3246 Intro to Construction  
CVEN 3256 Construction Equipment and Methods  
CVEN 3323 Hydraulic Engineering  
CVEN 3414 Fundamentals of Environmental Engineering  
CVEN 3424 Water and Waste-Water Treatment  
CVEN 3434 Intro to Applied Ecology  
CVEN 3525 Structural Analysis  
CVEN 3602 Transportation Systems  
CVEN 3698 Engineering Geology  
CVEN 3708 Geotechnical Engineering 1  
CVEN 3718 Geotechnical Engineering 2  
CVEN 4147 Civil Engineering Systems  
CVEN 4323 Water Resource Engineering Design  
CVEN 4333 Engineering Hydrology  
CVEN 4353 Groundwater Engineering  
CVEN 4383 Applied Groundwater Modeling  
CVEN 4404 Water Chemistry  
CVEN 4414 Water Chemistry Lab  
CVEN 4424 Environmental Organic Chemistry  
CVEN 4434 Environmental Engineering Design  
CVEN 4474 Hazardous and Industrial Waste Management  
CVEN 4484 Intro to Environmental Microbiology  
CVEN 4511 Intro to Finite Element Analysis  
CVEN 4525 Matrix Structural Analysis  
CVEN 4535 Construction Materials  
CVEN 4537 Numerical Methods in Civil Engineering  
CVEN 4545 Steel Design  
CVEN 4554 Fund of Air Quality Management  
CVEN 4555 Reinforced Concrete Design

CVEN 4565 Design of Wood Structures  
CVEN 4594 Water Reuse and Reclamation  
CVEN 4718 Mechanics and Dynamics of Glaciers  
CVEN 4728 Foundation Engineering

ECEN 1100 Exploring ECEN  
ECEN 1400 Intro to Digital and Analog Electronics  
ECEN 1500 Sustainable Energy  
ECEN 2250 Intro to Circuits and Electronics  
ECEN 2260 Circuits as Systems  
ECEN 2270 Electronics Design Lab  
ECEN 2350 Digital Logic  
ECEN 2410 Renewable Sources and Efficient Electrical Energy Systems  
ECEN 2420 Electronics for Wireless Systems  
ECEN 2703 Discrete Mathematics for Computer Engineers  
ECEN 3170 Electromagnetic Energy Conversion 1  
ECEN 3250 Microelectronics  
ECEN 3300 Linear Systems  
ECEN 3303 Intro to Robotics  
ECEN 3320 Semiconductor Devices  
ECEN 3350 Programming Digital Systems  
ECEN 3360 Digital Design Lab  
ECEN 3400 Electromagnetic Fields and Waves  
ECEN 3410 Electromagnetic Waves and Transmission  
ECEN 3810 Intro to Probability Theory  
ECEN 4138 Control Systems Analysis  
ECEN 4167 Electromagnetic Energy Conservation 2  
ECEN 4224 High Speed Digital Design  
ECEN 4242 Communication Theory  
ECEN 4341 Bioelectromagnetics  
ECEN 4423 Chaotic Dynamics  
ECEN 4517 Power Electronics and Photovoltaic Power Systems Lab  
ECEN 4532 Digital Signal Processing Laboratory  
ECEN 4553 Compilier Construction  
ECEN 4555 Principles of Energy Systems and Devices  
ECEN 4583 Software System Development  
ECEN 4606 Undergraduate Optics Laboratory  
ECEN 4616 Optoelectronic System Design  
ECEN 4632 Intro to Digital Filtering  
ECEN 4634 Microwave and RF Lab  
ECEN 4638 Control Systems Lab  
ECEN 4652 Communication Laboratory  
ECEN 4753 Computer Performance Modeling  
ECEN 4797 Intro to Power Electronics  
ECEN 4827 Analog IC Design  
ECEN 5107 Electric Power Grid

EMEN 4200 Engineering and Entrepreneurship for the Developing World

EMEN 4405 Systems Engineering

ENEN 4321 Oil and Gas Processing

ENEN 4600 Interdisciplinary Energy Engineering Projects

EVEN 1000 Intro to EVEN

EVEN 4100 Environmental Sampling and Analysis

EVEN 4404 Water Chemistry

EVEN 4414 Water Chemistry Lab

EVEN 4434 Environmental Engineering Design

EVEN 4464 Environmental Engineering Process

EVEN 4484 Intro to Environmental Microbiology

GEEN 1017 CAD

GEEN 1400 Engineering Projects

GEEN 2400 Engineering Projects for the Community

GEEN 2851 Statics for Engineers

INFO 1201 Computational Reasoning 1: Expression and Media Transformation

INFO 1301 Statistics for Information Science

INFO 2201 Computational Reasoning 2: Representation of Data

INFO 2301 Quantitative Reasoning for Information Science

INFO 3401 Information Exploration

INFO 4604 Applied Machine Learning

INFO 4607 Software Engineering for Data-Centered Systems

MCEN 1025 CAD

MCEN 2023 Statics and Structures

MCEN 2063 Mechanics of Solids

MCEN 3017 Circuits and Electronics

MCEN 3023 Component Design

MCEN 3030 Computational Methods

MCEN 3032 Thermodynamics 2

MCEN 4026 Manufacturing processes and Systems

MCEN 4032 Sustainable Energy

MCEN 4043 System Dynamics

MCEN 4115 Mechatronics and Robotics 1

MCEN 4117 Anatomy and Physiology for Engineers

MCEN 4123 Vibration Analysis

MCEN 4124 Mechanical Behavior of Materials

MCEN 4127 Biomedical Ultrasound

MCEN 4131 Air Pollution Control Engineering

MCEN 4135 Wind Energy and Wind Turbine Design

MCEN 4137 Anatomy and Physiology 2

MCEN 4141 Indoor Air Pollution

MCEN 4151 Flow Visualization

MCEN 4152 Intro to Combustion

MCEN 4154 Biocolloids and Biomembranes

MCEN 4173 Finite Element Analysis  
MCEN 4194 Electrochemical Energy Conversion and Storage  
MCEN 4228 Design of Coffee  
MCEN 4228 Intro of Microfluidics

## **GENERAL (NON-ENGINEERING) TECH ELECTIVES**

ACCT 3220 Corporate Financial Reporting 1  
ACCT 3230 Corporate Financial Reporting 2  
ACCT 3320 Cost Management  
ACCT 4240 Advanced Financial Accounting  
ACCT 4250 Financial Statement Analysis  
ACCT 4540 Accounting Information Systems  
ACCT 4620 Auditing and Assurance Services

ANTH 2010 Intro to Biological Anthropology 1  
ANTH 2020 Intro to Biological Anthropology 2  
ANTH 2030 Lab in Physical Anthropology 1  
ANTH 2070 Bones, Bodies, and Disease  
ANTH 2210 Lab in Archaeological Methods  
ANTH 3000 Primate Behavior  
ANTH 3010 The Human Animal  
ANTH 4000 Quantitative Methods  
ANTH 4060 Nutrition and Anthropology  
ANTH 4070 Methods in Biological Anthropology  
ANTH 4110 Human Evolutionary Biology  
ANTH 4120 Advanced Biological Anthropology  
ANTH 4130 Advanced Osteology  
ANTH 4170 Primate Evolutionary Biology  
ANTH 4240 Geoarchaeology  
ANTH 4330 Human Ecology: Archaeological Aspects  
ANTH 4380 Lithic Analysis and Replication  
ANTH 4610 Medical Anthropology

APPM 2720 Python for Math and Stat  
APPM 2750 Java: Training, Mathematical Algorithms, and Mobile Apps  
APPM 3010 Chaos in Dynamical Systems  
APPM 3050 Scientific Computing in MATLAB  
APPM 3170 Discrete Applied Mathematics  
APPM 3310 Matrix Methods and Applications  
APPM 3350 Advanced Engineering Calc  
APPM 3570 Applied Probability  
APPM 4120 Intro to Operations Research  
APPM 4350 Methods in Applied Math: Fourier Series  
APPM 4360 Methods in Applied Math: Complex Variables  
APPM 4380 Modeling in Applied Mathematics  
APPM 4390 Modeling in Mathematical Biology

APPM 4440 Undergraduate Applied Analysis 1  
APPM 4450 Undergraduate Applied Analysis 2  
APPM 4560 Markov Processes, Queues & Monte Carlo Sim  
APPM 4570 Statistical Methods  
APPM 4590 Statistical Modeling  
APPM 4650 Intermediate Numerical Analysis 1  
APPM 4660 Intermediate Numerical Analysis 2  
APPM 4720 Open Topics in Applied Mathematics

APRD 4300 Strategic Communication Analytics and Metrics

ASEN 3519 The Politics of Space

ASTR 1000 The Solar System  
ASTR 1010 Intro to Astronomy 1  
ASTR 1020 Intro to Astronomy 2  
ASTR 1030 Accelerated Intro Astronomy 1  
ASTR 1040 Accelerated Intro Astronomy 2  
ASTR 1200 Stars and Galaxies  
ASTR 2010 Modern Cosmology  
ASTR 2020 Space Astronomy and Exploration  
ASTR 2030 Black Holes  
ASTR 2040 Search for Life in the Universe  
ASTR 2600 Intro to Scientific Programming  
ASTR 3300 Extraterrestrial Life  
ASTR 3510 Observations and Instrumentation 1  
ASTR 3520 Observations and Instrumentation 2  
ASTR 3560 Astronomical Instrumentation Lab  
ASTR 3710 Formation and Dynamics of Planetary Systems  
ASTR 3720 Planets and Their Atmospheres  
ASTR 3730 Astrophysics 1 - Stellar and Interstellar  
ASTR 3740 Cosmology and Relativity  
ASTR 3750 Planets, Moons, and Rings  
ASTR 3760 Solar and Space Physics  
ASTR 3800 Intro to Scientific Data Analysis and Computing  
ASTR 3830 Astrophysics 2 - Galactic and Extragalactic  
ASTR 4330 Cosmochemistry  
ASTR 4800 Space Science: Practice and Policy

ATOC 3050 Principles of Weather  
ATOC 3070 Intro to Oceanography  
ATOC 3180 Aviation Metrology  
ATOC 3300 Analysis of Climate and Weather Observation  
ATOC 3500 Air Chemistry and Pollution  
ATOC 3600 Principles of Climate  
ATOC 3720 Planets and Their Atmospheres  
ATOC 4200 Biogeochemical Oceanography  
ATOC 4500 Special Topics in Atmospheric and Oceanic Sciences

ATOC 4550 Mountain Meteorology  
ATOC 4720 Atmospheric Dynamics  
ATOC 4750 Desert Meteorology and Climate  
ATOC 4770 Renewable Energy Meteorology

BCHM 1041 Biotechnology and Society  
BCHM 1701 Biochemistry Program for Research Exploration and Planning  
BCHM 2700 Foundations of Biochemistry  
BCHM 4312 Quantitative Optical Imaging  
BCHM 4400 Core Concepts in Physical Chemistry for Biochemists  
BCHM 4491 Modern Biophysical Methods  
BCHM 4611 Principles of Biochemistry  
BCHM 4621 Genome Databases: Mining and Management  
BCHM 4631 Statistical and Computational Analysis of the Human Genome  
BCHM 4720 Metabolic Pathways and Human Disease  
BCHM 4740 Biochemistry of Gene Transmission, Expression and Regulation

BSLW 4120 Advanced Business Law

BUSM 2010 Principles of Marketing  
BUSM 2011 Principles of Management  
BUSM 2020 Principles of Accounting  
BUSM 2021 Principles of Finance  
BUSM 3010 Managing Innovation I  
BUSM 3011 Managing Innovation II  
BUSM 3020 Business & Financial Analytics I  
BUSM 3021 Business & Financial Analytics II  
BUSM 3030 Intro to Entrepreneurship  
BUSM 4010 Professional Business Plan Development

CHEM 4011 Modern Inorganic Chemistry  
CHEM 4021 Inorganic Laboratory  
CHEM 4141 Environmental Water and Soil Chemistry  
CHEM 4251 Materials Chemistry and Properties  
CHEM 4261 Organic Materials: Structures and Functions  
CHEM 4271 Chemistry of Solar Energy  
CHEM 4531 Physical Chemistry 2  
CHEM 4581 Physical Chemistry Lab 1  
CHEM 4591 Physical Chemistry Lab 2

CSCI 3090 Intro to Quantum Computing  
CSCI 3352 Biological Networks

CVEN 5834 International Environmental Impact Assessment

EBIO 1230 Lab 1  
EBIO 1240 Lab 2  
EBIO 2040 Principles of Ecology



EBIO 2070 Genetics: Molecules to Populations  
EBIO 2090 Tropical Island and Marine Ecology  
EBIO 3040 Conservation Biology  
EBIO 3080 Evolutionary Biology  
EBIO 3170 Mountain Ecology and Conservation  
EBIO 3190 Tropical Marine Ecology  
EBIO 3240 Animal behavior  
EBIO 3400 Microbiology  
EBIO 3630 Parasitology  
EBIO 3850 Animal Diversity – Invertebrates  
EBIO 4030 Limnology  
EBIO 4060 Landscape Ecology  
EBIO 4080 Freshwater Phycology  
EBIO 4090 Coral Reef Ecology  
EBIO 4100 Advanced Ecology  
EBIO 4140 Plant Ecology  
EBIO 4160 Intro to Biogeochemistry  
EBIO 4290 Phylogenetics and Comparative Biology  
EBIO 4410 Biological Statistics  
EBIO 4440 Animal Developmental Diversity  
EBIO 4500 Plant Diversity and Evolution  
EBIO 4510 Plant Anatomy and Development  
EBIO 4520 Plant Systematics  
EBIO 4530 Functional Plant Biology  
EBIO 4550 Plant Eco-Evo Devo  
EBIO 4660 Insect Biology  
EBIO 4740 Bio of Amphibians and Reptiles  
EBIO 4750 Ornithology  
EBIO 4760 Mammalogy

ECON 3818 Intro to Statistics with Computer Applications  
ECON 4231 Applied Economic Analysis and Public Policy  
ECON 4697 Industrial Organization and Regulation  
ECON 4808 Intro to Mathematical Economics  
ECON 4818 Intro to Econometrics  
ECON 4838 Microcomputer Applications in Economics  
ECON 4848 Applied Econometrics  
ECON 4858 Financial Econometrics  
ECON 4868 Simulation Modeling in Microeconomics

EMEN 4030 Project Management Systems  
EMEN 4050 Leadership and professional Skills  
EMEN 4100 Engineering Economics  
EMEN 4110 Supply Chain Management  
EMEN 4120 Managing Business Processes  
EMEN 4400 Quality Management  
EMEN 4800 Technology Ventures and Marketing  
EMEN 4820 Entrepreneurial Product Development

EMEN 4825 New Venture Creation  
EMEN 4830 Ventures for Civic Innovation

ENGL 3106 Introduction to Literary Study with Data Science

ENVD 1004 Intro to Environmental Design  
ENVD 1052 Design and Communication I

ENVS 3001 Sustainable Solutions Consulting  
ENVS 3040 Conservation Biology  
ENVS 3434 Intro to Applied Ecology  
ENVS 3600 Principles of Climate  
ENVS 4160 Intro to Biogeochemistry  
ENVS 4201 Biometeorology

ESBM 3700 Entrepreneurial Environments  
ESBM 4570 Entrepreneurial Finance  
ESBM 4820 Engineering Entrepreneurship  
ESBM 4826 Exp. Sem-social Entrepreneurship: Designing a Better World

FNCE 3010 Corporate Finance  
FNCE 4000 Financial Institutions Management  
FNCE 4040 Derivative Securities  
FNCE 4050 Capital Investment Analysis  
FNCE 4832 Microfinance

GEEN 3830 Engineering Mathematics

GEOG 1001 Environ Systems 1- Climate and Vegetation  
GEOG 1011 Environ Systems 2 - Landscapes and Water  
GEOG 2053 Mapping a Changing World  
GEOG 3053 Geographic Information Science: Mapping  
GEOG 3251 Mountain Geography  
GEOG 3301 Analysis of Climate and Weather Observations  
GEOG 3351 Biogeography  
GEOG 3511 Intro to Hydrology  
GEOG 3601 Principles of Climate  
GEOG 3692 Intro to Global Public Health  
GEOG 4023 Advanced Quantitative Methods for Spatial Data  
GEOG 4043 Advanced Geovisualization and Web Mapping  
GEOG 4093 Remote Sensing of the Environment  
GEOG 4103 Intro to Geographic Information Science: Spatial Analytics  
GEOG 4201 Biometeorology  
GEOG 4203 Geographic Information Science: Spatial Modeling  
GEOG 4241 Principles of Geomorphology  
GEOG 4251 Fluvial Geomorphology  
GEOG 4261 Glaciers and Permafrost  
GEOG 4271 The Arctic Climate System

GEOG 4303 Geographic Information Sciences: Spatial Programming  
GEOG 4311 Watershed Biogeochemistry  
GEOG 4321 Snow Hydrology  
GEOG 4331 Mountain Climatology  
GEOG 4371 Forest Geography: Principles and Dynamics  
GEOG 4401 Soils Geography  
GEOG 4403 Geographic Information Science: Space Time Analytics  
GEOG 4501 Water Resources and Water Management of Western United States

GEOL 1010 Exploring Earth  
GEOL 1012 Exploring Earth for Scientists  
GEOL 1020 Dodos, Dinos, and Deinococcus: The History of a Habitable Planet  
GEOL 1030 Intro to Geology Laboratory1  
GEOL 1040 Geology of Colorado  
GEOL 1060 Global Change: An Earth Science Perspective  
GEOL 1150 Water, Energy, and Environment: An Intro to Earth Resources  
GEOL 1170 Our Deadly Planet  
GEOL 1180 Our Microbial Planet  
GEOL 2001 Planet Earth  
GEOL 2005 Intro to Earth Materials  
GEOL 2040 Search for Live in the Universe  
GEOL 2100 Environmental Geology  
GEOL 2700 Intro to Field Geography  
GEOL 3010 Intro to Mineralogy  
GEOL 3020 Petrology  
GEOL 3023 Statistics for Geographic Data  
GEOL 3030 Intro to Hydrogeology  
GEOL 3040 Global Change: The Recent Geological Record  
GEOL 3050 GIS for Geologists  
GEOL 3070 Intro to Oceanography  
GEOL 3120 Structural Geology  
GEOL 3300 Extraterrestrial Life  
GEOL 3320 Intro to Geochemistry  
GEOL 3410 Paleobiology  
GEOL 3430 Sedimentology and Stratigraphy  
GEOL 3540 Intro to Petroleum Geology  
GEOL 3720 Evolution of Life: The Geological Record  
GEOL 3820 The Fluid Earth  
GEOL 3950 Natural Catastrophes and Geologic Hazards  
GEOL 4060 Oceanography  
GEOL 4070 Paleoclimatology  
GEOL 4093 Remote Sensing of the Environment  
GEOL 4160 Intro to Biogeochemistry  
GEOL 4215 Geochronology and Thermochronology  
GEOL 4241 Principles of Geomorphology  
GEOL 4270 Marine Chemistry and Geochemistry  
GEOL 4330 Cosmochemistry  
GEOL 4474 Vertebrate paleontology

GEOL 4670 Isotope Geology  
GEOL 4711 Igneous and Metamorphic Field Geology  
GEOL 4712 Structural Field Geology  
GEOL 4714 Field Geophysics  
GEOL 4715 Field Techniques in Hydrogeology  
GEOL 4716 Environmental Field Geochemistry  
GEOL 4717 Field Seminar in Geology and Tectonics  
GEOL 4721 Field Methods in Active Tectonics

INBU 4200 International Financial management

INFO 3402 Information Exposition  
INFO 3507 Data and the Humanities  
INFO 4602 Information Visualization  
INFO 4603 Survey Research Design

IPHY 2420 Intro to Nutrition  
IPHY 3410 Human Anatomy  
IPHY 3415 Human Anatomy Laboratory  
IPHY 3417 Virtual Human Anatomy Laboratory  
IPHY 3430 Human Physiology  
IPHY 3435 Physiology Laboratory  
IPHY 3440 Clinical Nutrition  
IPHY 3450 Comparative Animal Physiology  
IPHY 3460 Comparative Vertebrate Anatomy  
IPHY 3470 Human Physiology 1  
IPHY 3480 Human Physiology 2  
IPHY 3490 Intro to Epidemiology  
IPHY 3660 Dynamics of Motor Learning  
IPHY 3800 Forensic Biology  
IPHY 3810 Forensic Biology Laboratory  
IPHY 4200 Physiological Genetics and Genomics  
IPHY 4440 Endocrinology  
IPHY 4470 Biology of Human Reproduction  
IPHY 4480 Comparative Reproduction  
IPHY 4540 Biomechanics  
IPHY 4580 Sleep Physiology  
IPHY 4600 Immunology  
IPHY 4650 Exercise Physiology  
IPHY 4720 Neurophysiology  
IPHY 4730 Integrative Motor Control

JRNL 4521 Data Journalism

LING 3005 Cognitive Science  
LING 3100 Language Sound Structures  
LING 4420 Morphology and Syntax  
LING 4632 Machine Learning and Linguistics

MATH 3001 Analysis I  
MATH 3110 Intro to Theory of Numbers  
MATH 3120 Functions and Modeling  
MATH 3140 Abstract Algebra 1  
MATH 3170 Combinatorics 1  
MATH 3210 Euclidean and Non-Euclidean Geometries  
MATH 4000 Foundations of Mathematics  
MATH 4001 Analysis 2  
MATH 4120 Intro to Operations Research  
MATH 4140 Abstract Algebra 2  
MATH 4200 Intro to Topology  
MATH 4230 Differential Geometry of Curves and Surfaces  
MATH 4330 Fourier Analysis  
MATH 4440 Mathematics and Coding and Cryptography  
MATH 4470 Partial Differential Equations 1  
MATH 4510 Intro to Probability Theory  
MATH 4540 Intro to Time Series  
MATH 4650 Intermediate Numerical Analysis I  
MATH 4660 Intermediate Numerical Analysis 2  
MATH 4730 Set Theory

MCDB 1161 From Dirt to DNA: Phage Genomics Laboratory I  
MCDB 2150 Principles of Genetics  
MCDB 2161 From DNA to Genes, Phage Genomics Laboratory II  
MCDB 3135 Molecular Biology  
MCDB 3140 Cell Biology Laboratory  
MCDB 3145 Cell Biology  
MCDB 3150 Biology of the Cancer Cell  
MCDB 3160 Infectious Disease  
MCDB 3333 Biomedical Innovations and Discoveries  
MCDB 3350 Fertility, Sterility, and Early Mammalian Development  
MCDB 3501 Structural Methods for Biological Macromolecules  
MCDB 3650 The Brain – From Molecules to Behavior  
MCDB 3651 The Brain: Dysfunction to Disease  
MCDB 3700 Poisons in Cell Biology and Society  
MCDB 4101 Manipulating Genomes-Discovering Gene Functions  
MCDB 4202 The Python Project  
MCDB 4300 Immunology  
MCDB 4310 Microbial Genetics and Physiology  
MCDB 4350 Microbial Diversity and the Biosphere  
MCDB 4361 Evolution and Development  
MCDB 4410 Human Molecular Genetics  
MCDB 4422 Molecular Biology of Free Radicals: Role(s) in Oxidative Stress, Signaling, Disease, Aging  
MCDB 4425 Cellular Stress Responses: Molecular Mechanisms, Physiology, and Human Diseases  
MCDB 4426 Cell Signaling and Developmental Regulation  
MCDB 4427 Biology of the Visual System  
MCDB 4444 Animal Developmental Diversity  
MCDB 4471 Mechanisms of Gene Regulation in Eukaryotes

MCDB 4520 Bioinformatics and Genomics  
MCDB 4550 Cells, Molecules and Tissues, A Biophysical Approach  
MCDB 4615 Biology of Stem Cells  
MCDB 4621 Genome Databases: Mining and Management  
MCDB 4650 Developmental Biology  
MCDB 4680 Mechanisms of Aging  
MCDB 4750 Animal Virology  
MCDB 4777 Molecular Neurobiology  
MCDB 4790 Oocytes, Stem Cells, Organisms: Experiments to Discoveries  
MCDB 4810 Insane in the Membrane: The Biology and Biophysics of the Membrane

MGMT 4110 Supply Chain Management  
MGMT 4120 Managing Business Processes

MKTG 3150 Sales Management, Leadership and Organization Development  
MKTG 3250 Buyer Behavior  
MKTG 3350 Marketing Research and Analytics  
MKTG 4250 Product Strategy  
MKTG 4350 Services Marketing Strategy  
MKTG 4500 Advertising Management  
MKTG 4550 Advertising and Promotion Management  
MKTG 4650 Institutional Relationships and Strategy

NAVR 3030 Naval Engineering Systems I  
NAVR 3040 Weapons and Systems Analysis  
NAVR 4030 Navigation

NRSC 4015 Affective Neuroscience  
NRSC 4032 Neurobiology of Learning and Memory  
NRSC 4042 Systems of Neuroscience  
NRSC 4062 The Neurobiology of Stress  
NRSC 4072 Clinical Neuroscience: A Clinical and Pathological Perspective  
NRSC 4082 Neural Circuits of Learning and Decision Making  
NRSC 4092 Behavioral Neuroendocrinology  
NRSC 4132 Neuropharmacology  
NRSC 4155 Cognitive Neuroscience/Neuropsychology  
NRSC 4542 The Neurobiology of Mental Illness  
NRSC 4545 Neurobiology of Addiction

PHYS 2130 General Physics 3  
PHYS 2150 Experimental Physics 2  
PHYS 2170 Foundations of Modern Physics  
PHYS 2210 Classical Mechanics and Math Methods 1  
PHYS 2600 Intro to Programming and Scientific Computing  
PHYS 3210 Classical Mechanics and Math Methods 2  
PHYS 3220 Quantum Mechanics 1  
PHYS 3310 Principles of Electricity and Magnetism 1  
PHYS 3320 Principles of Electricity and Magnetism 2

PHYS 3330 Electronics for the Physical Sciences  
PHYS 4130 Biol Electron Microscopy: Principles and Recent Advances  
PHYS 4150 Plasma Physics  
PHYS 4230 Thermodynamics and Statistical Mechanics  
PHYS 4340 Intro to Solid State Physics  
PHYS 4410 Quantum Mechanics 2  
PHYS 4420 Nuclear and Particle Physics  
PHYS 4510 Optics

PSYC 2012 Biological Psychology  
PSYC 2111 Psychological Science 1: Statistics  
PSYC 3005 Cognitive Science  
PSYC 3102 Behavioral Genetics  
PSYC 3112 Behavioral Genetics II  
PSYC 3303 Abnormal Psychology  
PSYC 4021 Psychology and Neuroscience of Exercise  
PSYC 4052 Behavioral Neuroscience  
PSYC 4142 Brain Injury, Plasticity and Recovery: From Neuron to Behavior  
PSYC 4145 Advanced Cognitive Psychology  
PSYC 4155 Cognitive Neuroscience/Neuropsychology  
PSYC 4175 Computational Cognitive Neuroscience  
PSYC 4332 Found in Translation: TBI from Bench to Bedside to Community  
PSYC 4543 Clinical Neuropsychological Disorders

STAT 2600 Intro to Data Science  
STAT 3100 Applied Probability  
STAT 3400 Applied Regression  
STAT 4000 Statistical Methods and Applications I (If taken with STAT 4010 and in place of CHEN 3010 App Data)  
STAT 4010 Statistical Methods and Applications II (If taken with STAT 4000 and in place of CHEN 3010 App Data)  
STAT 4100 Markov Processes, Ques, and Monte Carlo Simulations  
STAT 4400 Advanced Statistical Modeling  
STAT 4430 Spatial Statistics  
STAT 4520 Intro to Mathematical Statistics  
STAT 4540 Intro to Time Series  
STAT 4610 Statistical Learning  
STAT 4630 Computational Bayesian Statistics  
STAT 4680 Statistical Collaboration  
STAT 4690 Advanced Statistical Collaboration  
STAT 4700 Philosophical and Ethical Issues in Statistics