

SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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ASTRONOMY, CONTINUED

HONORS COURSE

ASTR 110H

GENERAL ASTRONOMY

3 Units/Prerequisite: Satisfactory completion (C or better) of ENGL 101. Minimum GPA 3.0.

Advisory: ENGL 030 or ESL 037 or appropriate assessment, MATH 030 or appropriate assessment and READ 022 or appropriate assessment.

Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: ASTR 110 or ASTR 110H) (SEE ASTR 110 FOR COURSE DESCRIPTION.)

Honors section requirements: beginning students, enrollment in English 101; continuing students, successful completion of English 101. Students will receive honors credit (H) by completing an "honors contract" with the instructor.

0103 MW 9:40-11:05 AM HIGHFILL D Rm S236
(Enrollment restricted; see Honors Program information, page 5.)

ASTR 112

OBSERVATIONAL ASTRONOMY

1 Unit/Prerequisite: ASTR 110 with a grade of "C" or better.

Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: ASTR 112 or ASTR 114.)

This course is designed to acquaint the student with the methods, techniques, and tools of the astronomer. Indoor labs will demonstrate classical methods and techniques of science. Students will learn the critical thinking processes needed to acquire and analyze scientific data. Students will become familiar with naked eye objects visible during the fall/winter [112], spring/summer [114] including constellations, planets, star clusters, galaxies, meteors, and the phases of the moon. Students will learn to locate objects visually and use astronomical coordinate systems. The development of skill in the operation of optical telescopes is emphasized. This course is designed for those with an interest in learning night skies and the tools astronomers use to explore the cosmos. Observatory facilities will be utilized often, weather permitting. Field trips are an integral part of this class.

1894 T 2:30-6:50 PM HIGHFILL D Rm S230
0097 Th 2:30-6:50 PM HIGHFILL D Rm S230

299 DIRECTED STUDY

1-3 Units

SEE description in GENERAL INFORMATION
Times to be Arranged STAFF TBA

**AUTOMOTIVE COLLISION
REPAIR & PAINTING**

DIVISION OF CAREER TECHNICAL EDUCATION

AUTOB 075

COLLISION ESTIMATING

3 Units/Advisory: Eligibility for READ 022 or appropriate assessment and AUTOB 101.

This course provides a foundation in the basic principles and techniques of Automotive Collision estimating. The course is designed to prepare students to enter the field of Automotive Collision Estimating using the latest revisions of CCC's Pathways Collision Estimating Software. The course is designed to prepare students to enter the field of Automotive Collision Estimating using the latest revisions of Mitchell Estimate CX System. Major emphasis will be placed on diagnosis of damage, writing a damage report, and computer assisted estimates.

★ 1310 T 6:00-9:10 PM FLORES A Rm T102

AUTOB 080

AUTOMOTIVE PAINTING I

3 Units/Advisory: READ 023 or appropriate assessment.

This is an introductory course in the fundamental aspects of automotive painting. The course is a study in the use of spray equipment and special tools used in automotive painting. Related technical information is presented concerning different types of paint products and finishes, painting safety, hazardous waste handling and disposal, and state regulations and rules used in the automotive paint industry. This course may be taken once and repeated one time for credit.

0414 Sat 8:00 AM-3:30 PM FAIRCHILD P Rm. 124

AUTOB 099

AUTO COLLISION MECHANICAL AND ELECTRONIC COMPONENTS

4 Units/Advisory: AUTOB 101, READ 023 or appropriate assessment.

This course provides a foundation in the basic principles and techniques of repair, and replacement of mechanical and electronic components involved in collision. This course is designed for advanced students with previous auto body experience who desire a broader overview and basic understanding of components related in auto collision repair. This course will be taken once and repeated two times for credit.

★ 1018 TTh 6:30-9:40 PM STEELE R Rm T104

AUTOB 101

INTRODUCTION TO AUTOMOTIVE COLLISION REPAIR & PAINTING

4 Units/Advisory: Eligibility for READ 023 or appropriate assessment.

Transfers to: CSU

This is an introductory course in the fundamental aspects of automotive collision repair and is designed for anyone with an interest in the subject matter. Major emphasis is on unitized construction, high strength steel, metal straightening and finishing, paint feathering and priming. Related technical information is presented concerning power and hand tools and their use, automobile designs and nomenclature. This course may be taken once and repeated one time for credit.

1297 TTh 9:00 AM-1:15 PM STEIN R Rm T124
★ 1298 MW 5:30-9:45 PM STEIN R Rm T124

AUTOB 110

AUTO BODY AND FRAME STRAIGHTENING

4 Units/Prerequisite: AUTOB 101

Advisory: READ 023 or appropriate assessment

This course is designed to provide the student with the theory and basic skills required to repair frame and unibody damage. Practical problems and new procedures are introduced in the process of correcting misalignment of frame and body structures, caused by collision damage, including frame straightening, body alignment, sectioning, door and panel repair, and major collision repair. This course may be taken once and repeated one time for credit.

★ 0933 TTh 5:30-8:40 PM LOPEZ G Rm T124

AUTOB 120

AUTOMOTIVE COLLISION REPAIR & PAINTING I

3 Units/Prerequisite: AUTOB 101

Advisory: READ 023 or appropriate assessment

Transfer to: CSU

This is a course designed to further the student's knowledge of the auto body, and to develop greater skill in the reconstruction of damaged areas. Other topics include straightening major body damage, color matching, spot painting, and overall painting. This course may be taken once and repeated one time for credit.

1300 MW 9:00 AM-12:05 PM STEIN R Rm T124

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER TECHNICAL EDUCATION

AUTOT 040

INTRODUCTION TO ALTERNATIVE FUELS & ADVANCED TECHNOLOGY VEHICLES

3 Units/Advisory: READ 023 or appropriate assessment.

This is an introductory course on alternative fuels and advanced technology vehicles. Various alternative fuels and advanced technology vehicles will be compared, such as Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Hydrogen, Bio-Fuel, Fuel Cells, etc. The theory of operation, system components, and the safe handling of these fuels are included. Students will develop skills in the area of operation, system component identification, and service procedures related to advanced technology vehicles using alternative fuels. This course is designed to provide the student with an introduction to the ASE F1 Compress Natural Gas Vehicle Test and overview of current and future alternative fuels.

★ 0312 W 6:00-10:15 PM FRALA J Rm T118

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AUTOMOTIVE TECHNOLOGY, CONTINUED

AUTOT 046

HONDA PERFORMANCE III

4 Units/Corequisite: AUTOT 140 and AUTOT 210

Advisory: ENGL 035 OR ESL 198 or appropriate assessment, READ 023 or appropriate assessment

This course provides instruction and testing of Honda/Acura Performance programs. Course work will include manual transmissions, restraints, steering and suspension systems. Students will learn what is needed to complete hands-on training of each module using American Honda Motors interactive network. All complete work will be reported on American Honda's Motors interactive network. All completed work will be reported on American Honda's Dealer Personal Tracking System, DPTS.

★ 8528 T 6:00-10:25 PM DIGHERA M Rm T120

Students are required to concurrently enroll in section 1359 & 1340.

AUTOT 049

AUTOMOTIVE SPECIALTY PRACTICE

1 Units/Advisory: READ 023 or appropriate assessment.

This is an introductory course designed to provide students the opportunity to practice automotive repairs currently performed in dealerships and independent repair shops. Proper repair procedures and use of related tools, equipment and technical data will be emphasized. Focus will be placed on the development of shop skills in the specialized areas of the student's preparation. This course may be taken once and repeated three times for credit.

0398 TBA TBA FRANZ R OFF CAMPUS

Ticket number 0398 will be held at Workman High School 16303 Temple Ave. City of Industry, CA 91744.

AUTOT 50.4

AUTOMOTIVE SERVICE EXCELLENCE (ASE) CERTIFICATION PREPARATION

2 Units/Advisory: READ 023 or appropriate assessment

This course is designed to help the student prepare for and review the theory and skills necessary to pass the Automotive Service Excellence (ASE) certification examinations. All areas of automotive certification, A-1 thru A-8 will be reviewed. This course may be taken for credit once and repeated for credit two additional times.

THE FOLLOWING SECTION MEETS OCTOBER 6 - DECEMBER 11, 2009

8227 24 hrs/7 days FRALA J INTERNET

AUTOT 101

INTRODUCTION TO AUTOMOTIVE SERVICE AND REPAIR

3 Units/Advisory: READ 022 or appropriate assessment and ENGL 030 or ESL 197 or appropriate assessment.

Transfers to: CSU

This is an introductory course designed to provide the student with the fundamentals of the engine, transmission, brake and suspension systems of the modern automobile. This course is designed to be a companion course to AUTOT 103. Students are encouraged to complete both courses to obtain a firm foundation in this subject and they may be taken in any order or concurrently. Students will learn basic automotive tool and equipment use and how to safely perform basic repair and maintenance operations. Students will have the opportunity to perform minor repair work on their own vehicle as well as using school owned vehicles and units to complete required tasks.

★ 1285 M 8:00 AM-12:15 PM HAEBERLEIN L Rm T122

★ 1286 W 6:00-10:15 PM JELINEK P Rm T120

AUTOT 103

INTRODUCTION TO AUTOMOTIVE SERVICE AND REPAIR

3 Units/Advisory: READ 022 or appropriate assessment and ENGL 030 or ESL 197 or appropriate assessment.

Transfers to: CSU

This is an introductory course designed to provide the student with the fundamentals of the electrical, heating and air conditioning, engine performance and emissions control systems of the modern automobile. This course is designed to be a companion course to Automotive Technology 101. Students are encouraged to complete both courses to obtain a firm foundation in this subject and they may be taken in any order or concurrently. Students will learn basic automotive tool and equipment use and how to safely perform basic repair and maintenance operations. Students will have the opportunity to perform minor repair work on their own vehicle as well as using school owned vehicles and units to complete required tasks.

1292 W 8:00 AM-12:15 PM HAEBERLEIN L Rm T122

*1295 Sat 8:00 AM-12:15 PM LUNA J Rm T120

* Professor is bilingual English/Spanish

AUTOT 106

AUTOMOTIVE ELECTRICAL TOOLS AND DIAGNOSTIC PROCEDURES

3 Units/Advisory: ENGL 035 or ESL 198 or appropriate assessment and READ 023 or appropriate assessment

This is an introductory course designed to provide the student with the fundamentals of electrical circuits, introduce the basic theories of electrical diagnosis, and the proper use of electrical tools and equipment. Emphasis will be placed on safe work practices, service information systems, electrical symbols and circuit diagrams, batteries, starting, charging, ignition systems, and general vehicle network systems.

0316 TBA TBA FRANZ R OFF CAMPUS

Ticket number 0316 will be held at Workman High School 16303 Temple Ave. City of Industry, CA 91744.

AUTOT 108

INTRODUCTION TO AUTOMOTIVE DIESEL SERVICE & OPERATION

3 Units/Advisory: ENGL 035 or ESL 198 or appropriate assessment and READ 023 or appropriate assessment, MATH 030 or appropriate assessment.

This beginning course introduces students to the field of diesel powered passenger cars theory of operation and general service procedures. This course covers the principals of operation, fuel systems, electrical, exhaust systems and controls. This course is for the beginning student, general technicians and emission control (smog) technicians interested in automotive diesel technology.

0319 Sat 8:00-11:10 AM STAFF Rm T118

AUTOT 110

INTRODUCTION TO ENGINE DIAGNOSIS AND TUNE-UP

3 Units/Advisory: AUTOT 101 and AUTOT 103.

Transfers to: CSU

THIS COURSE WILL NOT BE OFFERED AGAIN UNTIL FALL 2010

An introductory study of automotive diagnosis and tune-up procedures as they pertain to the function and control of the engine, fuel, ignition, starting, and charging systems. This course is first in a series of Engine Diagnosis and Tune-Up classes, and is designed for the student who wants to enter the field of Tune-Up, Drivability, and Emissions.

★ 1342 Th 6:00 - 10:15 PM Tram J Rm T103

AUTOT 128

FUEL INJECTION SYSTEMS I

3 Units/Advisory: AUTO 048 AND AUTO 110

Transfers to: CSU

This course is designed to provide the student with the fundamentals of pre-OBD-II Bosch Engine Management Systems related to Bosch-equipped vehicles. Students will learn how to use Bosch-specific tools and equipment, and how to safely perform basic repair and maintenance operations. Emphasis will be placed upon the D-Jetronic Systems, K-Jetronic Systems, and L-Jetronic systems. Service Information Systems, Electrical Circuits, Symbols and Circuit Diagrams, and other related topics will be discussed. This course requires the student to have a solid background regarding the technical knowledge of basic Gasoline Engine Fuel and Ignition Systems as a prerequisite, and is required for the proposed Bosch Certificate Program.

0315 Sat 8:00-11:10 AM STAFF Rm T103

Introduction to Automotive Diesel Service & Operation

AUTO 108 Section #0319 Sat 8:00-11:15 AM

This beginning course introduces students to the field of diesel powered passenger cars theory of operation and general service procedures. This is a new course offered by the Auto Tech Department. Emphasis will be placed on the new field of automotive diesel service and repair.

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AUTOMOTIVE TECHNOLOGY, CONTINUED

**AUTOT 130
BASIC CLEAN AIR CAR COURSE**

4 Units/Advisory: AUTOT 115, AUTOT 120.

Transfers to: CSU

THIS COURSE WILL NOT BE OFFERED AGAIN UNTIL FALL 2010

This course is intended to prepare students to take the State of California Motor Vehicle Pollution Control License Examination (Smog Technician Test). Course content includes Engine Theory, Basic Electrical, Ignition Systems, Fuel Systems, and Emissions Systems. Emphasis is placed on proper engine diagnostic procedures, OBD-I and OBD-II systems, and rules & regulations. Lab activities focus on the use of testing equipment, scan tools, digital scopes & meters, as well as inspection and the repair procedures of vehicles that failed the Smog Test. This course is one of two required courses that qualifies student/technicians to meet the Bureau of Automotive Repair (BAR) requirements for the State of California licensing examination preparation. This course may be taken once for credit towards the major and repeated twice to enhance student skills and proficiency.

★ 1991	MW	6:00-9:10 PM	DORNEAN M	Rm T103
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**AUTOT 140
BODY AND CHASSIS ELECTRICAL SYSTEMS**

4 Units/Advisory: AUTOT 101, ENGL 035, READ 023.

Transfers to: CSU

This course discusses the modern automobile's electrical system as related to the body and chassis of the vehicle. The theory of operation, operational characteristics and methods of problem diagnosis and repair for the following systems are included: lighting, instruments, windshield wipers, power windows/seats/mirrors, audio systems, convertible tops, safety restraints and anti-theft systems.

1359	M	8:00 AM-3:10 PM	DIGHERA M	Rm T112B
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Students are required to concurrently enroll in Section 8528 & 1340

**AUTOT 155
AUTOMOTIVE ON-BOARD DIAGNOSTICS GENERATIONS ONE AND TWO (OBD I & OBD-II)**

3 Units/Advisory: AUTOT 120 and AUTOT 056.

This course will provide students with the fundamentals of Automotive On-Board Diagnostics, Generations one and Two (OBD-I AND OBD-II). Students will discuss the history, regulations, vocabulary, and diagnostic strategies of OBD-I and OBD-II equipped vehicles. Topics of discussion include Safety, Service Information Systems, Electrical Circuits, Symbols & Circuit Diagrams, and other Fuel & Ignition-related subjects. This course requires the student to have a solid background regarding the technical knowledge of basic Gasoline Engine Fuel and Ignition Systems. This course is designed for all automotive majors with a background in advance emission repair.

★ 0320	T	6:00-10:15 PM	ROMO G	Rm T103
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**AUTOT 200
SUSPENSION, STEERING AND ALIGNMENT SERVICE**

4 Units/Advisory: AUTOT 101 AND AUTOT 103

Transfers to: CSU

This course discusses the principles of suspension, steering and wheel alignment for modern imported and domestic automobiles and light trucks. Emphasis is placed on developing skills required in the diagnosis, and/or repair and adjustment to steering systems and wheel alignment angles. Complete suspension and steering system overhaul will be covered in the laboratory. Computerized wheel alignment and computerized wheel balancing equipment will be used/demonstrated. This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in suspension, steering and alignment.

★ 0325	MW	6:00 PM-8:15 PM (LECTURE)	TOMEIO J	Rm T122
		6:00 PM-10:15 PM (LAB)		

**AUTOT 210
AUTOMOTIVE BRAKE SYSTEMS**

4 Units/Advisory: AUTOT 101 and AUTOT 103.

Transfers to: CSU

This course discusses modern disc and drum brake theory of operation, service and repair procedures, related tool and equipment use and strategy based problem diagnosis. These procedures for imported and domestic automobiles and light trucks are developed through classroom discussions, demonstrations and laboratory experiences. This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in Brake service.

1340	W	8:00 AM-2:30 PM	DIGHERA M	Rm T120
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Students are required to concurrently enroll in Section 8528 & 1359.

**AUTOT 230
AUTOMATIC TRANSMISSION TRANSAXLE**

4 Units/Advisory: AUTO 125, ENGL 035 or ESL 198 or appropriate assessment, READ 023 or appropriate assessment.

Transfers to: CSU

This course is designed to provide instruction in Automatic Transmission/Transaxle systems. Included will be the application of friction materials, fluids, hydraulic components, and sealing materials. The student will achieve skill in diagnosis, removal, disassembly and rebuilding to manufacturer's specifications.

★ 0317	TTh	6:00-8:15 PM (LECTURE)	LUKE T	Rm T122
		6:00-10:05 PM (LAB)		

**AUTOT 240
HEATING AND AIR CONDITIONING**

4 Units/Advisory: AUTOT 101, ENGL 030 or ESL 197 or appropriate assessment, READ 022 or appropriate assessment.

Transfers to: CSU

This course is designed to provide instruction on the operating principles of common automotive heating and air conditioning systems. Retrofitting R-12 systems to R-134a will be covered as well as the rules of AQMD/EPA. Students will be given the opportunity to earn their certification license (EPA Rule 1411). This course may be taken once for credit towards the major and repeated one time to enhance student skills and proficiency level.

~~*0344 Sat 8:00 AM-3:10 PM DIGHERA M Rm T122~~

***THERE IS A MANDATORY 50 MINUTE BREAK**

**AUTOT 290
COOPERATIVE WORK EXPERIENCE/INTERNSHIP**

4 Units/Advisory: ENGL 030 or ESL 197 or appropriate assessment, READ 023 or appropriate assessment.

Transfers to: CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the automotive/transportation field and have completed or enrolled in the appropriate coursework. This course may be taken once and repeated three times for credit.

The first meeting is Friday, September 4th, 2009 8:00 AM-12:00 PM for information email the instructor at mdighera@riohondo.edu.

0322	TBA	TBA	1 UNIT	DIGHERA M	Rm T118
0323	TBA	TBA	2 UNIT	DIGHERA M	Rm T118
0343	TBA	TBA	3 UNIT	DIGHERA M	Rm T118
0377	TBA	TBA	4 UNIT	DIGHERA M	Rm T118

**HEM 045
HEAVY EQUIPMENT POWERTRAIN FUNDAMENTALS**

4 Units/Advisory: ENGL 035 or ESL 198 or appropriate assessment and READ 023 or appropriate assessment

This course is intended for students entering the field of Heavy Equipment Maintenance and Repair or students that are currently in the industry looking to advance their knowledge of Heavy Equipment Maintenance and Repair. This course will provide instruction on the principles of heavy equipment powertrain fundamentals. Instruction on technical reference materials, parts and service books, computer systems and programs used by the service technicians will be covered.

1023	TTh	8:00-11:10 AM	FRALA J	Rm T118
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**HEM 046
HEAVY EQUIPMENT FUEL SYSTEMS & PERFORMANCE**

4 Units/Advisory: ENGL 035 or ESL 198 or appropriate assessment and READ 023 or appropriate assessment

This course is intended for students entering the field of Heavy Equipment Maintenance and Repair or students that are currently in the industry looking to advance their knowledge of Heavy Equipment Maintenance and Repair. This course will provide instruction on the principles of heavy equipment diesel fuel systems and performance. Instruction on technical reference materials, parts and service books computer systems and programs used by the service technicians will be covered.

1024	MW	8:00-11:10 AM	FRALA J	Rm T118
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SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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AUTOMOTIVE TECHNOLOGY, CONTINUED

TCED 044

OSHA WORKPLACE SAFETY

1 Units/Advisory: *READ 023 or appropriate assessment*

This course is intended for the individual who needs an overview and/or certification of both the California and the rules and regulations, and discuss fire protection and prevention, material handling/storage/use and disposal, hand and power tools, welding and cutting, electrical safety, and fall protection. Upon completion of this course, (as well as passing the final exam), the student will receive a 10 hour OSHA Training Certificate of completion, which is good for life.

THE FOLLOWING SECTION WILL MEET AUGUST 24-SEPTEMBER 28, 2009

★ 1017	M	6:00-9:20 PM	ALTON K	Rm T120
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TCED 054

OSHA WORKPLACE SAFETY II

2 Units/Advisory: *READ 023 or appropriate assessment*

This course is intended for the individual who needs an intermediate-level overview and/or the additional number of hours required for certification of both the California and Federal OSHA Safety Regulations for the General Industry and Construction Workplace. This course is offered as a continuation of TCED 044, and will cover a review of the topics discussed in that class. The course will primarily cover a detailed overview of scaffolds, hoists, confined spaces, lockout/tagout procedures, industrial hygiene, and emergency action plans. Upon completion of this course, (as well as passing the final exam), and successful completion of TCED 044, the student will receive a 30-hour OSHA Training Certificate of completion, which is good for life.

THE FOLLOWING SECTION WILL MEET OCTOBER 5-DECEMBER 7, 2009

★ 1026	M	6:00-9:50 PM	ALTON K	Rm T120
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BIOLOGY

DIVISION OF MATHEMATICS & SCIENCES

Transportation for field trips may not be provided by Rio Hondo College.

BIOL 101

GENERAL BIOLOGY

4 Units/Advisory: *ENGL 035 or ESL 198 or appropriate assessment, READ 023 or appropriate assessment, and MATH 050 or appropriate assessment.*

Transfers to: *UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: BIOL 101 or BIOL 200.)*

General Biology 101 is a general education course, open to all students, and is designed to provide an introduction to concepts and principles of modern biology. Topics covered will include cell structure and function, energy relationships, genetic control mechanisms, concepts of evolution, biological diversity, and ecosystem function. The laboratory component of the course emphasizes the application of the scientific method as a tool to understanding living systems.

LECTURE/LABORATORY SECTIONS

0118	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&M(Lab)	9:40 AM-12:50 PM	RIBAYA J	Rm S130
0136	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&W(Lab)	9:40 AM-12:50 PM	KELLER T	Rm S130
1508	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&W(Lab)	1:00-4:10 PM	KELLER T	Rm S130
0116	TTh(Lec)	8:05-9:30 AM	BETHEL R	Rm S136
	&T(Lab)	9:40 AM-12:50 PM	JAYACHANDRAN S	Rm S130
0117	TTh(Lec)	8:05-9:30 AM	BETHEL R	Rm S136
	&Th(Lab)	9:40 AM-12:50 PM	JAYACHANDRAN S	Rm S130
0119	TTh(Lec)	11:15 AM-12:40 PM	CUMMINGS F	Rm S136
	&T(Lab)	2:25-5:35 PM	CUMMINGS F	Rm S130
0120	TTh(Lec)	11:15 AM-12:40 PM	CUMMINGS F	Rm S136
	&Th(Lab)	2:25-5:35 PM	CUMMINGS F	Rm S130
0121	TTh(Lec)	11:15 AM-12:40 PM	CUMMINGS F	Rm S136
	&F(Lab)	9:00 AM-12:10 PM	BURKEMPER B	Rm S130
★0856	MW(Lec)	5:30-6:55 PM	VODA M	Rm S136
	&M(Lab)	2:15-5:25 PM	CUMMINGS F	Rm S130
★ 0126	MW(Lec)	5:30-6:55 PM	VODA M	Rm S136
	&M(Lab)	7:00-10:10 PM	VODA M	Rm S130
★0127	MW(Lec)	5:30-6:55 PM	VODA M	Rm S136
	&W(Lab)	7:00-10:10 PM	OLSEN K	Rm S130
0124	Sat(Lab)	8:00-11:10 AM	ESDIN J	Rm S130
	&Sat(Lec)	11:15 AM-2:25 PM	ESDIN J	Rm S136
0125	Sat(Lec)	11:15 AM-2:25 PM	ESDIN J	Rm S136
	&Sat(Lab)	2:30-5:40 PM	ESDIN J	Rm S130

BIOL 111

MARINE BIOLOGY

3 Units/Advisory: *ENGL 035 or ESL 198 or appropriate assessment, READ 023 or appropriate assessment, and MATH 050 or appropriate assessment.*

Transfers to: *UC, CSU*

This course is designed to give the student a better understanding of the basic principles of Marine Biology and fulfills the general education lecture requirement for the life sciences. Emphasis is placed on how the scientific method is used to investigate the chemical, physical, and geological properties of the marine environment. Students will learn to distinguish among the diverse organisms and habitats that comprise the ocean's ecosystems. An introduction to the structure and function of marine ecosystems is provided and the impact of human activity on those systems will be addressed.

0134	TTh	9:40-11:05 AM	KATNIK S	Rm S136
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BIOL 111L

MARINE BIOLOGY LABORATORY

1 Unit/Prerequisite/Corequisite: *BIOL 111.*

Advisory: *ENGL 035 or ESL 198 or appropriate assessment, READ 023 or appropriate assessment, and MATH 050 or appropriate assessment.*

Transfers to: *UC, CSU*

This laboratory course complements the Marine Biology lecture course and is designed for the student interested in furthering their understanding of the marine environment and its organisms, with emphasis on marine life of the local coasts. The scientific method will be employed to investigate the chemical and physical properties of seawater, the role of pigments in marine algae, the behavior of marine organisms, the basic classification and morphology of marine producers, invertebrates and vertebrates, and adaptations of organisms to specific habitats. Students will use basic laboratory equipment and techniques in both classroom and field-based investigations. Field trips to coastal marine habitats and public aquaria are conducted.

0135	T	12:50-4:00 PM	KATNIK S	Rm S124
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BIOL 120

ENVIRONMENTAL BIOLOGY

3 Units/Advisory: *ENGL 101, READ 023 or appropriate assessment, and MATH 050 or appropriate assessment.*

Transfers to: *UC, CSU*

Utilizing basic biological concepts, an interdisciplinary approach is used to address environmental challenges. Topics addressed may include ecosystem characteristics and functions, population dynamics, energy and material resource use, pollution, and alternative energy sources. Students in many disciplines will benefit from this course as the social, political, and economic implications of environmental decisions are addressed. This course fulfills the general education requirement in life sciences.

0132	TTh	9:40-11:05 AM	WILLIAMS R	Rm S121
0128	MW	11:15 AM-12:40 PM	KATNIK S	Rm S121
★ 0137	TTh	5:30-6:55 PM	KATNIK S	Rm S236

Principles of Biology I and II

**BIOL 200 (I) and 201 (II) comprise the two semester sequence for Biology majors.
BIOL 200 is a prerequisite for Biology 201**

**Biology 200 is offered only in the Fall Semester.
Biology 201 is offered only in the Spring Semester**