

SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM	SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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**ADN, continued**

**ADN 254 (FORMERLY ADN 204 & ADN 205)**  
**LEADERSHIP AND MANAGEMENT IN NURSING**  
 4.5 Units / Prerequisites: ADN 253 with a minimum grade of "C" or better.  
 Advisory: READ 023 or appropriate assessment.  
 Transfers to: CSU

This course focuses on theories and principles of leadership and management. It also addresses legal and ethical issues, current trends in nursing and changes in the delivery of health care affecting nursing practice. The students will apply the concepts and principles related to leadership and management through a preceptorship experience in the clinical setting. This course is designed for students in the Associate Degree Nursing Program.

**(SEE DEPARTMENT FOR PERMIT PRIOR TO REGISTRATION)**  
**THE FOLLOWING LECTURE MEETS APRIL 2-APRIL 20, 2007**

0061	M	8:00-10:50 AM	HASKINS J	Rm S202
	(4/2, 4/9)			
	T	7:00-9:50 AM	HASKINS J	Rm S202
	(4/3, 4/10)			
	F	8:00-10:50 AM	HASKINS J	Rm S336
	(4/6, 4/13)			
	Sat	8:00-10:50 AM	HASKINS J	Rm S202
	(4/7, 4/14)			
	F	9:00-11:50 AM	HASKINS J	Rm S336
	(5/18)			

**THE FOLLOWING LECTURE MEETS APRIL 2-APRIL 20, 2007**

0064	M	1:00-3:50 PM	HASKINS J	Rm S202
	(4/2, 4/9)			
	T	11:00-1:50 PM	HASKINS J	Rm S202
	(4/3, 4/10)			
	F	1:00-3:50 PM	HASKINS J	Rm S336
	(4/6, 4/13)			
	Sat	1:00-3:50 PM	HASKINS J	Rm S202
	(4/7, 4/14)			
	F	9:00-11:50 AM	HASKINS J	Rm S336
	(5/18)			

**STUDENTS ENROLLING IN THE ABOVE LECTURE SECTION MUST REGISTER FOR ONE (1) OF THE FOLLOWING LABORATORY SECTIONS:**

**THE FOLLOWING LABS MEET APRIL 12-MAY 10, 2007**

0056	TBA	TBA	BIESEMEYER G	HOSP
0057	TBA	TBA	PAGE C	HOSP
0059	TBA	TBA	HASKINS J	HOSP
0034	TBA	TBA	PEREZ C	HOSP
0036	TBA	TBA	BOYD P	HOSP
0067	TBA	TBA	HERZFLED	HOSP
0007	TBA	TBA	SEILER	HOSP
0021	TBA	TBA	MORALES	HOSP

**HEALTH SCIENCE PERSONAL LEARNING SKILLS**

**NON-CREDIT**

Open Entry/Open Exit tutorial assistance in basic skills for Health Science students. No Fee.

5082	TBA	TBA	AUSTIN C	Rm S208
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**ASTRONOMY**

**DIVISION OF MATHEMATICS & SCIENCES**

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

**ASTR 110**  
**GENERAL ASTRONOMY**

3 Units / 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)

This is a descriptive nonmathematical course designed to develop an appreciation of astronomy and a broad cosmic perspective. The emphasis of the course is on the current state of knowledge of our solar system, our galaxy, and the universe. Topics on the frontier of astronomical knowledge such as black holes and the search for extraterrestrial life will be explored. This course is designed for those with an interest in astronomy or anyone who desires to expand their cosmic horizons.

1220	MW	8:05-9:30 AM	HIGHFILL D	Rm S236
1221	TTh	8:05-9:30 AM	HIGHFILL D	Rm S236
1222	MW	9:40-11:05 AM	HIGHFILL D	Rm S236
1223	TTh	9:40-11:05 AM	HIGHFILL D	Rm S236
★ 1262	Th	7:00-10:05 PM	HIGHFILL D	Rm S236

**ASTR 114**  
**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.

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

2064	Th	12:00-4:20 PM	HIGHFILL D	Rm S230
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**ASTR 150**  
**ASTRONOMY FIELD STUDIES**

1-2 Units / Prerequisite: ASTR 110.

Transfers to: CSU

This is an observational course designed for students who wish to study celestial objects and observe celestial motions in clear, dark skies through field investigations. Students will develop the skill required to operate portable telescopes in their investigations of stars, constellations, planets, nebulae multiple star systems, the moon, the sun, and the Milky Way. Visual observations of meteors will be conducted nightly. This course is designed for those who wish to learn night skies and the observational tools of the astronomer. Area of study will include, but will not be limited to, campsites in National Monuments and Parks in the southwestern United States.

**THE FOLLOWING SECTION IS OFFERED FEBRUARY 24-MARCH 17, 2007**

1224	Sat (2/24/07)	9:00 AM-5:00 PM	HIGHFILL D	Rm S236
	(1st class meeting is on 2/24/07-orientation)			& Observatory
	Field Trips: JOSHUA TREE NATIONAL PARK (No fee to students)			
	March 8-10, 2007 AND March 15-17, 2007			

**THE FOLLOWING SECTION IS OFFERED APRIL 7-APRIL 21, 2007**

0162	Sat (4/7/07)	9:00 AM-5:00 PM	HIGHFILL D	Rm S236
	(1st class meeting is on 4/7/07-orientation)			& Observatory
	Field Trips: JOSHUA TREE NATIONAL PARK (No fee to students)			
	April 12-14, 2007 AND April 19-21, 2007			

**299 DIRECTED STUDY**

SEE description in GENERAL INFORMATION  
 Times to be Arranged STAFF

**1-3 UNITS**

**AUTOMOTIVE COLLISION**  
**REPAIR & PAINTING**

**DIVISION OF BUSINESS & TECHNOLOGY**

**AUTOB 075**  
**COLLISION ESTIMATING**

3 Units / Advisory: AUTOB 101, READ 022 or appropriate assessment.

This course provides a foundation in the basic principles and techniques 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 auto collision estimating with major emphasis placed on diagnosis of damage, writing a damage report, and computer assisted estimates.

★ 2068	W	6:00 - 9:05 PM	FLORES A	Rm T112A
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**Register early for best course selections.**

SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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**AUTOMOTIVE COLLISION, continued**

**AUTOB 085**

**AUTOMOTIVE PAINTING II**

3 Units / Prerequisite: AUTOB 080.

This is an advanced, industry-based course in automotive painting procedures and special effect materials used in painting. Practical experience is provided in the use of spray equipment and special tools used in automotive painting. Related technical information is presented concerning different types of custom paints and finishes, painting safety, and paint problem solving techniques. This course may be taken once and repeated two times for credit.

0188 TTh 5:30 - 9:05 PM MAKSIMOW M Rm T105F

**AUTOB 090**

**ADVANCED AUTOMOTIVE COLLISION REPAIR**

2 Units / Advisory: AUTOB 130, READ 023 or appropriate assessment.

This course is designed for the advancement of skills in the art of automotive collision repair, painting, customizing, and the repair of plastics. Major emphasis is placed on hand and power tool use, theory of design, complete repair projects and practicing repair skills for employment opportunities. This course may be taken once and repeated two times for credit.

2212 MW 8:50 AM - 12:00 PM STEIN R Rm T105F

**AUTOB 096**

**COLLISION REPAIR ANALYSIS**

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

This course provides an overview of the investigative methods and techniques used to identify fraudulent repairs in the auto collision industry. Lecture, discussion, and examination of actual vehicles will be used to develop student understanding of and skill in detecting incompetent or fraudulent repairs. The class consists of demonstrations on actual vehicles that will provide a sampling of incompetent or fraudulent repairs. This course may be repeated one time to enhance student skills and proficiency. This course is suitable for those interested in the field of auto collision fraud investigation.

**THE FOLLOWING SECTION IS OFFERED JANUARY 29-MARCH 14, 2007**

0189 MW 5:30 - 7:35 PM SMITH G Rm T122

**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. The course is designed for students with previous auto body experience and those who desire a broader overview and basic understanding of components related to auto collision repair. This course may be taken once and repeated two times for credit.

★ 1339 MW 6:30 - 9:45 PM STEELE R Rm T105F

**AUTOB 101**

**INTRODUCTION TO AUTOMOTIVE COLLISION REPAIR & PAINTING**

4 Units / Advisory: READ 023 or appropriate assessment.

Transfer 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.

1449 TTh 9:00 AM - 1:10 PM STEIN R Rm T105F

1450 MW 5:30 - 9:40 PM STEIN R Rm T105F

**AUTOMOTIVE TECHNOLOGY**

**DIVISION OF BUSINESS & TECHNOLOGY**

**AUTOT 47.9**

**ADVANCED CLEAN AIR CAR COURSE**

2 Units / Advisory: AUTOT 120 and AUTOT 130

This course is intended to prepare students to take the State of California Motor Vehicle Pollution Control Enhanced Area License Examination (I/M Test). This course is a combination of the Advanced Emissions Diagnostics Update Course and the BAR 97 Transition class. Course content includes: customer awareness, five gas analysis, catalytic converters, baseline techniques, scan tool and lab scope use, and practical application of loaded mode (smog test) emissions testing. Proper diagnosis, testing, services and repair of all emissions systems will be an essential part of this course. This course is one of two courses that qualifies students/technicians to meet the Bureau of Automotive Repair requirements for the State of California Enhanced Area Licensing Examination preparation. This course may be taken once for credit towards the certificate and repeated twice to enhance the student's skills and proficiency.

★ 1321 M 6:00 - 10:20 PM TOMORY S Rm T112C

**AUTOT 50.1**

**ASE A6 ALTERNATIVE COURSE- AUTOMOTIVE ELECTRICAL/ELECTRONIC DIAGNOSIS AND REPAIR**

1.5 Units / Advisory: READ 022 or appropriate assessment.

This course is designed to prepare students for the equivalent of the ASE A6 exam, a requirement which must be met to partially satisfy the State of California requirements. Course content includes: general engine diagnosis and repair, air/fuel/ignition system diagnosis and repair, and emission control systems diagnosis and repair. Upon successful completion of the course, the student will receive a certificate of completion from the California State BAR. This course may be taken once for credit towards the certificate and repeated twice to enhance the student skills and proficiency.

**THE FOLLOWING SECTION MEETS FEBRUARY 3 - MARCH 3, 2007**

1322 Sat 8:00 AM - 2:05 PM TOMORY S Rm T112C

\*MANDATORY 50 MINUTE BREAK

**AUTOT 50.2**

**ASE A8 ALTERNATIVE COURSE - AUTOMOTIVE ENGINE PERFORMANCE DIAGNOSIS AND REPAIR**

1.5 Units / Advisory: READ 022 or appropriate assessment.

This course is designed to prepare students for the equivalent of the ASE A8 exam, a requirement which must be met to partially satisfy the State of California requirements. Course content includes: general engine diagnosis and repair, air/ignition systems diagnosis and repair, and emission control systems diagnosis and repair. Upon successful completion of the course, the student will receive a certificate of completion from the California State BAR. This course may be taken once for credit towards the certificate and repeated twice to enhance student skills and proficiency.

**THE FOLLOWING SECTION MEETS MARCH 10 - APRIL 14, 2007**

2421 Sat 8:00 AM - 2:05 PM TOMORY S Rm T112C

\*MANDATORY 50 MINUTE BREAK

**AUTOT 50.3**

**ASE L1 ALTERNATIVE COURSE - AUTOMOTIVE ADVANCED ENGINE PERFORMANCE DIAGNOSIS AND REPAIR**

1.5 Units / Advisory: AUTOT 50.1 and AUTOT 50.2

This course is designed to prepare students for the equivalent of the ASE L1 exam, a requirement which must be met to partially satisfy the State of California requirements. Course content includes: general engine diagnosis and repair, air/fuel/ignition systems diagnosis and repair, and emission control systems diagnosis and repair. Upon successful completion of the course, the student will receive a certificate of completion from the California State BAR. This course may be taken once for credit towards the certificate and repeated twice to enhance student skills and proficiency.

**THE FOLLOWING SECTION MEETS APRIL 21 - MAY 19, 2007**

2422 Sat 8:00 AM - 2:05 PM TOMORY S Rm T112C

\*MANDATORY 50 MINUTE BREAK

**Important Notice About Grades!**

Students can access semester grades in the following way:

- Touchtone telephone system
- College website to access grades online at: [RIOWEB.riohondo.edu](http://RIOWEB.riohondo.edu)

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### AUTOMOTIVE TECHNOLOGY, continued

#### AUTOT 056

##### AUTOMOTIVE MULTIMETER DIAGNOSIS

4 Units / Advisory: AUTOT 103 and READ 023 or appropriate assessment.

This course will provide instruction in the use of "Fluke" and other manufacturer's multimeter and "Lab Scopes" in the testing of automotive electrical/electronic components. This course is designed to introduce the "Theory of Electronic Diagnosis" to the beginning student, and advance the skills of current automotive students. These skills are necessary to analyze, identify and diagnose circuits used in the modern automobile.

#### INTERSESSION COURSE - AUTOT 056

THE FOLLOWING SECTION MEETS JANUARY 2-25, 2007

★ 4841 TWTTh 8:00 AM - 12:20 PM TOMORY S/FRALA J Rm T112B

#### AUTOT 057

##### AUTOMOTIVE SPECIALIZED ELECTRONICS TRAINING

4 Units / Advisory: AUTOT 103 and READ 023.

This course provides an overview of the principles of automotive electronics. Topics covered include electrical theory, fundamentals of circuit construction, computers, semiconductors, microprocessors, integrated circuits (IC), types of output signals, wire repair techniques, meter usage and strategy based diagnostics. A demonstration General Motors circuit board will be used to illustrate circuit board function. This course is designed for entry level technicians or students who need an understanding of the basics of automotive electronics.

#### ONLINE COURSE ACCESS: ONLINE.RIOHONDO.EDU/LOGIN

8029 24HRS/7 Days TOMORY S INTERNET

More information on pgs. 10-12.

#### 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.

1438 M 8:00 AM - 12:20 PM FRALA J Rm T110B  
1439 Sat 8:00 AM - 12:20 PM LUNA J \* Rm T120

\* Professor is Bilingual English/Spanish

#### AUTOT 103

##### INTRODUCTION TO AUTOMOTIVE SERVICE AND REPAIR

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

1006 W 8:00 AM - 12:20 PM TRAM J Rm T110B  
★ 1005 W 6:00 - 10:20 PM STAFF Rm T110B

#### AUTOT 120

##### ENGINE TUNE-UP/PERFORMANCE

4 Units / Advisory: AUTOT 115, ENGL 030 or ESL 197 or appropriate assessment, READ 022 or appropriate assessment.

Transfers to: CSU

This course studies the design characteristics of modern automotive fuel and ignition system components. It is structured to provide occupational preparation skills in terms of accurate diagnosis, failed part analysis, repair techniques and service procedures. Emphasis is placed on electronic diagnosis (including hand-held scan tools) exhaust gas analysis, and reading trouble "trees" and flow charts.

★ 1444 TTh 6:00 - 9:10 PM ROMO G Rm T112C

#### AUTOT 150

##### ENGINE ELECTRICAL SYSTEMS

4 Units / Advisory: AUTOT 115.

Transfers to: CSU

This course discusses the modern automobile's electrical system as related to the engine and various engine related systems. The theory of operation, operational characteristics and methods of problem diagnosis and repair for the following systems are included; ignition, electronic fuel injection, engine management, emission control, charging, cooling and starting. This course prepares the student for the (ASE) Automotive Service Excellence A-8 exam and is intended for Automotive majors. This course may be taken once for credit towards the major and repeated one time to enhance student skills and proficiency level.

0984 TTh 8:00 - 11:15 AM FRALA J Rm T112B

#### AUTOT 170

##### LOWER END ENGINE REBUILDING AND MACHINING

4 Units / Advisory: AUTOT 160, AUTOT 101, ENGL 035 or ESL 198 or appropriate assessment, READ 023 or appropriate assessment.

Transfers to: CSU

This course provided occupational preparation in the skills required in the adjustment and repair of the modern automobile engine lower-end assembly. Emphasis is placed on problem diagnosis, repair techniques, service procedures, and machining operation. This course prepares the student for the (ASE) Automotive Service Excellence A-1 exam and is intended for automotive majors. This course may be taken once and repeated once for credit.

0198 Sat 8:00 AM - 2:20 PM DIGHERA M Rm 110B

#### 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.

1335 MW 8:00 - 11:15 AM TOMEO J Rm T122

#### AUTOT 211

##### ANTILOCK BRAKES/TRACTION CONTROL SYSTEMS

3 Units / Advisory: READ 023 or appropriate assessment and AUTOT 210.

Transfers to: CSU

This course will provide instruction in automotive anti-lock brake systems, traction control systems and vehicle stability assist (VSA), including diagnosis, operation and maintenance of ABS/ TCS/VSA. The course will include the use of scanners, DVOM meters and lab-scopes in diagnosis of various ABS/TCS/VSA systems; both 2 wheel and 4 wheel systems will be covered.

★ 0982 T 6:00 - 9:10 PM FRALA J Rm T110B

#### AUTOT 220

##### MANUAL TRANSMISSION / DIFFERENTIAL SERVICE

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

Transfers to: CSU

This course discusses modern manual transmissions, driveline and differential theory of operation, methods of repair, service equipment operation and techniques of problem diagnosis. Procedures for imported and domestic vehicles are developed through classroom discussions, demonstrations and laboratory experiences.

★ 0199 T (Lec) 6:00 - 8:05 PM LUKE T Rm T120  
Th (Lab) 6:00 - 10:15 PM

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**AUTOMOTIVE TECHNOLOGY, continued**

**AUTOT 230  
AUTOMATIC TRANSMISSION / TRANSAXLE**

4 Units / Advisory: AUTOT 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.

**THE FOLLOWING SECTION WILL MEET JANUARY 29 - MARCH 24, 2007**

1458 TTh 8:00 AM - 3:20 PM STAFF Rm T110

Mandatory 50 minute break.

\*CONTENT SPECIFIC FOR HONDA AUTOMOBILES

**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.

**THE FOLLOWING SECTION MEETS JANUARY 29-MARCH 24, 2007**

1338 MW 8:00 AM-3:20 PM HAEBERLEIN L Rm T110

Mandatory 50 minute break.

\*CONTENT SPECIFIC FOR HONDA AUTOMOBILES

**AUTOT 256  
AUTOMOTIVE SCANTOOL & VEHICLE NETWORK**

3 Units / Prerequisite: AUTO 150 or READ 023 or appropriate assessment.

Transfers to: CSU

This course is designed to enhance the student's electrical and electronic diagnostic skills in both the automotive powertrain and chassis management spectrum. This course emphasizes an in-depth study of various automotive computer systems, vehicle communication network systems, as well as the latest scantools available to help aid in diagnostics of these systems. Course content includes: advanced electrical and electronic systems theory and diagnosis, OBD-I and OBD-II engine and transmission management systems diagnostics, and body & chassis systems diagnostics. The majority of the course content focuses on proper scantool usage, including proper tool selection, updating software, identifying and using data streams, and understanding numerous serial data protocols, including CAN data communications.

★ 0202 W 6:00 - 9:10 PM TOMORY S Rm T112C

**AUTOT 105  
COOPERATIVE WORK EXPERIENCE / INTERNSHIP**

3 Units / Corequisite: Enrollment in 7 or more units, including work experience/internship, during the semester in which the work experience/internship instruction is provided.

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.

0710 TBA TBA STAFF Rm T110

**TECH 299  
DIRECTED STUDIES**

1-3 Units / SEE description in GENERAL INFORMATION:

Times to be arranged STAFF

★ = Evening

🏠 = Online/Hybrid Classes

SEC. #	DAY(S)	TIME	INSTRUCTOR	ROOM
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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**

0069	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&T(Lab)	8:05-11:10 AM	STAFF	Rm S130
0071	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&M(Lab)	9:40 AM-12:45 PM	KELLER T	Rm S130
0091	MW(Lec)	8:05-9:30 AM	KELLER T	Rm S136
	&W(Lab)	9:40 AM-12:45 PM	KELLER T	Rm S130
0086	MW(Lec)	9:40-11:05 AM	CUMMINGGS F	Rm S121
	&M(Lab)	12:50-3:55 PM	STAFF	Rm S130
0088	MW(Lec)	9:40-11:05 AM	CUMMINGGS F	Rm S121
	&F(Lab)	9:00 AM-12:05 PM	SMITH M	Rm S130
0729	TTh(Lec)	11:15 AM-12:40 PM	KATNIK S	Rm S136
	&T(Lab)	12:50-3:55 PM	STAFF	Rm S130
0072	TTh(Lec)	11:15 AM-12:40 PM	KATNIK S	Rm S136
	&W(Lab)	12:50-3:55 PM	KATNIK S	Rm S130
0077	TTh(Lec)	11:15 AM-12:40 PM	KATNIK S	Rm S136
	&Th(Lab)	12:50-3:55 PM	KATNIK S	Rm S130
0170	MW(Lec)	5:30-6:55 PM	KATNIK S	Rm S136
	&MW(Lab)	4:00-5:25 PM	KATNIK S	Rm S130
0078	MW(Lec)	5:30-6:55 PM	KATNIK S	Rm S136
	&M(Lab)	7:00-10:05 PM	OLSEN K	Rm S130
0082	MW(Lec)	5:30-6:55 PM	KATNIK S	Rm S136
	&W(Lab)	7:00-10:05 PM	OLSEN K	Rm S130
0637	Sat(Lab)	8:00-11:05 AM	STAFF	Rm S130
	&Sat(Lec)	11:15 AM-2:20 PM	STAFF	Rm S136
0073	Sat(Lec)	11:15 AM-2:20 PM	STAFF	Rm S136
	&Sat(Lab)	2:25-5:30 PM	STAFF	Rm S130

**BIOL 111  
MARINE BIOLOGY**

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

Transfers to: UC, CSU

This course is a study of the various organisms found in the ocean including their adaptations, ecological interrelationships, and economic importance. Physical factors of oceans, such as currents, tides, and waves will also be considered. This course is designed to give the general education student a better understanding of that vast portion of the earth covered by water. Field trips to the marine environment will be used to supplement the lecture material.

0094 MW 5:25-6:50 PM CUMMINGGS F Rm S121

**BIOL 111L  
MARINE BIOLOGY LABORATORY**

1 Unit / Prerequisite/Corequisite: BIOL 111. Advisory: ENGL 035 or ESL 198 or appropriate assessment, READ 022 or appropriate assessment, and MATH 030 or appropriate assessment.

Transfers to: UC, CSU

This laboratory course complements the lecture course and fulfills the general education laboratory requirement for the life sciences. This course and its associated lecture are designed for the student interested in furthering their understanding of the marine environment and its organisms, special attention is given to marine life of the local coast. 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 marine 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.

★ 0080 W 7:00-10:05 PM STAFF Rm S124