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Degree & Certificate Programs

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**Courses in the degree/certificate are not necessarily listed in the order of enrollment. See prerequisites.*

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Associate Degree for Transfer

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Bachelor of Science Degree

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**Courses in the degree/certificate are not necessarily listed in the order of enrollment. See prerequisites.*

Rio Hondo College Majors & Programs

AA Associate of Arts Degree

AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree

AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Accounting			•		•
Accounting for Government and Non-Profit Organizations					•
Administration of Justice			•		
Administration of Justice for Transfer				•	
Advanced Engine Performance			•		•
Advanced Engine Performance-Technician					•
Alternative Energy Technology			•		•
Alternative Fuels & Advanced Transportation Technology			•		•
American Sign Language					•
Animation	•				
Anthropology for Transfer		•			
Applied Geographic Information Systems			•		
Architecture			•		
Architectural Design & Drawing			•		
Architectural Design & Drawing-Technician					•
Art/Studio Arts	•	•			
Art History for Transfer		•			
Associate Degree Nursing			•		
Automotive Technology			•		
Basic Fire Academy					•
Basic Police Academy					•
Biology			•		
Biology for Transfer				•	
Brake and Suspension Service					•
Business Administration	•				
Business Administration for Transfer				•	
Business Marketing			•		•
Carpentry – Concrete Forming			•		•
Carpentry – General			•		•
Carpentry – Scaffold Construction			•		•
Chemistry for Transfer				•	
Chicano Studies	•				
Child Development			•		•
Civil Design Technology			•		•
Civil Design & Drawing					•
Coaching of Sports					•
Communication Studies for Transfer		•			
Community Health Worker					•
Computer Information Technology: Cloud Computing Practitioner					•
Computer Information Technology: Computer Systems			•		•
Computer Information Technology: Cybersecurity			•		•
Computer Information Technology: Cybersecurity Technician					•
Computer Information Technology: Ethical Hacker					•
Computer Information Technology: Information Systems and Technology			•		
Computer Information Technology: Network Administrator			•		•

Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student's transcript.

Rio Hondo College Majors & Programs

AA Associate of Arts Degree
AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree
AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Computer Information Technology: Network Technician					•
Computer Information Technology: Office Technologies			•		•
Computer Information Technology: System Administrator			•		•
Computer Science for Transfer				•	
Computerized Accounting Systems					•
Construction Engineering Management			•		
Corrections			•		
CSU GE					•
Dance	•				•
Deaf Studies					•
Diesel Fuel & Emission Systems					•
Drug Studies			•		•
Early Childhood Education for Transfer				•	
Economics for Transfer		•			
Electric Vehicle and Fuel Cell Technology Technician			•		•
Electronics Technology			•		•
Elementary Teacher Education for Transfer		•			•
Engine Repair					•
Engineering			•		
Engineering Design Drafting			•		
Engineering Design Drafting - Technician					•
English and Literature	•				
English for Transfer		•			
Entertainment Art – Digital Characters					•
Entertainment Art – Digital Environments					•
Entrepreneurial Graphic Design					•
Environmental Science			•		
Environmental Technology			•		•
Field Technician					•
Fire Technology			•		•
Fitness Specialist					•
Foundations of Interpreting	•				
Fuel Injection Systems					•
General Automotive Service					•
General Service Technician					•
General Studies (Emphasis in Arts and Human Expression)	•				
General Studies (Emphasis in Science and Mathematics)			•		
General Studies (Emphasis in Social Behavior and Self-Development)	•				
General Studies (Emphasis in Social Sciences)	•				
Geographic Information Systems					•
Geology for Transfer				•	
Graphic Art and Design	•				
Graphic Design			•		•
Graphic Design: Advertising Design					•

Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student's transcript.

Rio Hondo College Majors & Programs

AA Associate of Arts Degree
AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree
AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Graphic Design: Branding & Identity Design					•
Graphic Design: Packaging Design					•
Graphic Design: Publication Design					•
Graphic Design: Website Design					•
Health and Safety					•
Health Science Preparation					•
Heat and Frost Insulators			•		•
Heavy Equipment Technology			•		
Heavy Equipment Diesel Engines Technician					•
Heavy Equipment Electronics Technician					•
Heavy Equipment General Service Technician					•
Heavy Equipment Hydraulics Technician					•
Heavy Equipment Powertrains Technician					•
Heavy Equipment Service Technician					•
History for Transfer		•			
Homeland Security			•		•
Honda Professional Career Training Program Specialization (PACT)			•		
Honda/Acura Air Conditioning and Supplemental Restraint Systems					•
Honda/Acura Brakes, Suspension, and Electronic Systems					•
Honda/Acura Engine Repair and Chassis Electrical Systems					•
Honda/Acura Power Train and Transmission Systems					•
Hospitality Management for Transfer				•	
IGETC					•
Infant/Toddler Specialization					•
International Business			•		•
Journalism for Transfer		•			
Kinesiology for Transfer		•			
Language and Literacy Specialization					•
Logistics Management			•		•
Management and Supervision			•		•
Mass Communications: Mass Media			•		•
Mass Communications: Print Media Specialization			•		•
Mathematics for Transfer				•	
Music	•	•			
Nutrition and Dietetics for Transfer				•	
Orthopedic Technician					•
Philosophy for Transfer		•			
Photography	•				
Physics for Transfer				•	
Police Academy Module I					•
Political Science for Transfer		•			
Preschool Teacher					•

Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student's transcript.

Rio Hondo College Majors & Programs

AA Associate of Arts Degree
AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree
AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Psychology for Transfer		•			
Retail Management					•
Safety, Comfort and Convenience Systems					•
Small Business Management			•		•
Social Justice Studies for Transfer		•			
Social Work	•				
Sociology for Transfer		•			
Spanish for Transfer		•			
Special Education Specialization					•
Sports Medicine			•		
Strength and Performance Coach					•
Studio Arts for Transfer		•			
Surveying, Mapping & Drawing					•
Technical Drawing					•
Tesla Student Automotive Technician (START)					•
Theatre Arts			•		
Theatre Arts for Transfer		•			
Transmission Service					•
Vocational Nursing			•		•
Waste Management					•
Water Management					•
Welding Technology			•		
Welding Technology: LADBS Structural Steel Certification Program					•
Welding Technology: Pipe Welding and Fabrication					•
Wildland Fire Technology			•		•
Yoga Teacher Training Certification					•

Rio Hondo College Majors & Programs

AA Associate of Arts Degree
AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree
AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	Skill Proficiency Certificate	Career Certificate
Accounting for Government and Non-Profit Organizations		•
Athletic Trainer's Aide		•
Basic Police Training		•
Certified Nurse Assistant Acute Care		•
Desktop Technician		•
Emergency Medical Technician	•	
Entry Network Technician		•
Game Development	•	
Home Health Aide		•
Human Services	•	
Income Tax Preparer	•	
Network Technician		•
Nurse Assistant Pre-Certification Training Course		•
PC Repair Technician		•

Non-Credit Certificates	Certificate of Completion	Certificate of Competency
Algebra I		•
Algebra II		•
B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design)	•	
Career Exploration: Graphic Design	•	
Civil Drawing and Pressure Piping	•	
ESL: Advanced English as a Second Language	•	
ESL: Foundational English as a Second Language	•	
ESL: Intermediate English as a Second Language	•	
ESL: English as a Second Language for College Preparation	•	
Geometry		•
Integrated Math I		•
Integrated Math II		•
Integrated Math III		•
Parametric Modeling and CADD	•	
Real Estate Practice and Finance		•
Real Estate Principles and Appraisal		•

Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student's transcript.

ACCOUNTING

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in the Accounting program prepares students for employment and advancement opportunities in business and industry such as financial institutions, hospitals, manufacturing and construction companies, wholesale and retail companies, transportation, utilities, educational institutions, all levels of government and the military. Entry-level employment opportunities include positions in general bookkeeping, accounts receivable/payable, payroll, income tax preparation, cost accounting and auditing.

Accounting Majors intending to obtain a bachelor's degree in Accounting should refer to the Business Administration transfer curriculum.

To acquire the **Associate of Science Degree in Accounting**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting.....4
	*Financial Accounting Honors.....4
ACCT 102	*Managerial Accounting4
ACCT 103	Payroll Accounting.....3
ACCT 106	Computerized Accounting.....3
ACCT 203	*Introduction to Cost Accounting.....3
BUSL 110	Legal Environment of Business3
CIT 117	Microsoft® Excel®3
MGMT 101	Introduction to Business3
ENGL 101 or MGMT 108	*College Composition & Research.....3.5
	Business Writing.....3

Choose a minimum of 6 units from the following:

ACCT 104	*Introduction to Governmental and Not-For-Profit Accounting..... 3
ACCT 105	Income Tax Accounting 4
ACCT 107	Accounting Ethics 3
ACCT 108	Volunteer Income Tax Assistance Program I..... 1
ACCT 109	*Volunteer Income Tax Assistance Program II 1
ACCT 110	*Excel for Business and Accounting 1
ACCT 290	CWE/Internship for Accounting Related Fields..... 1-4
FIN 101	Introduction to Financial Planning 3

Units Required 35 - 35.5

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

The certificate curriculum in Accounting prepares students for employment and advancement opportunities in business and industry such as financial institutions, hospitals, manufacturing and construction companies, wholesale and retail companies, transportation, utilities, educational institutions, all levels of government and the military. Entry-level employment opportunities include positions in general bookkeeping, accounts receivable/payable, payroll, income tax preparation, cost accounting and auditing.

Accounting Majors intending to obtain a bachelor's degree in Accounting should refer to the Business Administration transfer curriculum.

To acquire the **Certificate of Achievement in Accounting**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting.....4
	*Financial Accounting Honors 4
ACCT 102	*Managerial Accounting4
ACCT 103	Payroll Accounting.....3
ACCT 106	Computerized Accounting.....3
ACCT 203	*Introduction to Cost Accounting.....3
BUSL 110	Legal Environment of Business3
CIT 117	Microsoft® Excel®3
MGMT 101	Introduction to Business3
ENGL 101 or MGMT 108	*College Composition & Research..... 3.5
	Business Writing.....3

Choose a minimum of 6 units from the following:

ACCT 104	*Introduction to Governmental and Not-For-Profit Accounting3
ACCT 105	Income Tax Accounting4
ACCT 107	Accounting Ethics3
ACCT 108	Volunteer Income Tax Assistance Program I..... 1
ACCT 109	*Volunteer Income Tax Assistance Program II 1
ACCT 110	*Excel for Business and Accounting 1
ACCT 290	CWE/Internship for Accounting Related Fields..... 1-4
FIN 101	Introduction to Financial Planning.....3

Units Required 35 - 35.5

*Prerequisite

ACCOUNTING

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

Computerized Accounting Systems

This program is designed to provide students with basic accounting skills and knowledge necessary to obtain entry-level accounting and other accounting support positions in small and medium-sized businesses, which use computerized accounting systems. It will prepare students for advancement opportunities in the field of accounting.

To acquire the **Certificate of Achievement in Computerized Accounting Systems**, it is necessary to complete the following courses:

Required Courses	Units
ACCT 101 or Financial Accounting.....	4
ACCT 101H *Financial Accounting Honors.....	4
CIT 117 Microsoft Excel	3
MGMT 108 or Business Writing.....	3
MGMT 208 or *Business Communications.....	3
ENGL 101 *College Composition and Research	3.5
ACCT 106 Computerized Accounting.....	3
ACCT 103 Payroll Accounting.....	3

Units Required 16–16.5

**Prerequisite*

CERTIFICATE OF SKILL PROFICIENCY

Income Tax Preparer

This certificate is designed for individuals desiring to enter the tax preparation field with a minimum of course requirements. Upon successful completion of this certificate, students will possess the knowledge and practical experience necessary to prepare personal income taxes effectively. By completing the tax course, students will receive the qualifying education required by the California Tax Education Council to become a California Registered Tax Preparer.

Required Courses	Units
ACCT 105 Income Tax Accounting.....	4
ACCT 108 Volunteer Income Tax Assistance Program I.....	1
ACCT 109 *Volunteer Income Tax Assistance Program II	1

Units Required 6

**Prerequisite*

ACCOUNTING FOR GOVERNMENT AND NONPROFIT ORGANIZATIONS

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

This program is designed for individuals desiring employment in government or not-for-profit organizations. Upon successful completion of this certificate, candidates will be proficient in fund and non-for-profit accounting and possess the ability to perform basic accounting functions in a government and/or not-for-profit organizations.

To acquire the **Certificate of Achievement in Accounting for Government and Nonprofit Organizations**, it is necessary to complete the following courses:

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting.....4
ACCT 103	*Financial Accounting Honors.....4
ACCT 104	Payroll Accounting.....3
ACCT 106	*Introduction to Governmental and Not-For-Profit Accounting3
MGMT 108 or ENGL 101	Computerized Accounting.....3
	Business Writing.....3
	*College Composition and Research3.5

Units Required 16–16.5

**Prerequisite*

ADMINISTRATION OF JUSTICE

DIVISION OF PUBLIC SAFETY

Administration of Justice

(Open to all students)

Students desiring careers in law enforcement may elect a program from Administration of Justice. This program is designed to be transferable or job-oriented, depending on student need.

Students seeking careers in corrections, probation and parole should specialize in the corrections option. Some of these areas require a four-year degree.

Students seeking employment with a local, state or federal law enforcement agency should specialize in Administration of Justice. Every student should seek counseling with the assigned member of the Counseling staff in order to develop a comprehensive course of study within his/her career choice.

It is highly recommended that the Administration of Justice student take Introduction to Administration of Justice before advancing to the next courses. This provides a foundation of basic understanding of the Criminal Justice System. The student is now prepared for a study of courses in the Administration of Justice.

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Administration of Justice**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AJ 101 Introduction to Administration of Justice	3
AJ 102 Criminal Procedures	3
AJ 104 Legal Aspects of Evidence	3
AJ 105 Community Relations/Multicultural Issues within Public Service.....	3
AJ 106 *Criminal Law I	3
AJ 107 *Criminal Law II.....	3

Required Subtotal.....18

Plus 6 units from the following courses:

GIS 281 Crime Mapping and Analysis.....	4
AJ Administration of Justice Courses (Subject Titles & Units will vary)	
CORR Corrections Courses (Subject Titles & Units will vary)	
PAC Police Academy Courses (Subject Titles & Units will vary)	

Units Required 24

ADMINISTRATION OF JUSTICE

DIVISION OF PUBLIC SAFETY

ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER



Associate Degree
for Transfer

A Degree with a Guarantee.™

Associate in Science in Administration of Justice for Transfer

The **Associate in Science in Administration of Justice for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Criminal Justice majors (or similar majors) at a CSU campus that offers a Criminal Justice baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Administration of Justice and for students looking to further their understanding of the criminal justice system in America (police, courts, and corrections) and familiarize students with academic, career and volunteer opportunities in the field. These courses will provide students with a solid foundation in Administration of Justice that will serve them for either transferring or in the workplace.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Administration of Justice:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18-19 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
5. Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Criminal Justice major at the CSU where they seek transfer.

Required Courses

		Units
AJ 101	Introduction to Administration of Justice	3
AJ 106	*Criminal Law I	3

Choose two courses from the following list:

AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 207	Juvenile Law and Procedure	3
AJ 208	Principles of Investigation.....	3

Choose two courses from the following list:

(Any course not used above)

AJ 107	*Criminal Law II.....	3
AJ 275	Introduction to Forensic Science	3
CORR 101	Introduction to Corrections.....	3
MATH 130 or	*Statistics	
MATH 130H	*Statistics Honors	4
PSY 101 or	Introductory Psychology	
PSY 101H	*Introductory Psychology Honors.....	3
SOC 101 or	Introduction to Sociology	
SOC 101H	*Introductory Sociology Honors.....	3

Required Subtotal..... 18-19

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

AMERICAN SIGN LANGUAGE

DIVISION OF COMMUNICATIONS AND LANGUAGES

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in American Sign Language is designed to provide students with a strong foundation in communication through American Sign Language (ASL). This certificate is intended for students pursuing other degrees or careers not directly related to Deaf people or ASL but who still want to learn the language. With this certificate, the student can petition their employer for any benefits that may be available for those who have skills in ASL.

Students who successfully complete the certificate will be able to communicate competently in ASL on topics related to their profession. While students will not be able to act as an interpreter, they will be able to communicate directly with clients, customers, coworkers, or community members without the need for interpretation. Students will also have spent time within the Deaf community and will be familiar with where and how to locate social events related to the Deaf community and Deaf culture.

To acquire the **Certificate of Achievement in American Sign Language**, it is necessary to complete the following courses:

Required Courses	Units
ASL 101 American Sign Language I	4
ASL 102 *American Sign Language II	4
ASL 201 *American Sign Language III	4
ASL 202 *American Sign Language IV	4

Units Required 16

**Prerequisite*

AMERICAN SIGN LANGUAGE/ DEAF STUDIES

DIVISION OF COMMUNICATIONS AND LANGUAGES

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Deaf Studies is a foundational degree for those wishing to obtain mastery of American Sign Language (ASL). By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate Deaf Studies majors.

American Sign Language skills can be applied immediately to career choices in the fields of education, nursing, counseling, film, or any other area Deaf people live and work. Students can further their careers by pursuing degrees in Deaf education to be a credentialed teacher to Deaf and Hard of Hearing (DHH) students. Students may also pursue a career in ASL pedagogy, to teach ASL in a secondary or post-secondary educational setting.

To acquire the **Associate of Arts Degree in Deaf Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ASL 101 American Sign Language I	4
ASL 102 *American Sign Language II	4
ASL 201 *American Sign Language III	4
ASL 202 *American Sign Language IV	4
ASL 120 *Introduction to Deaf Studies.....	3
ASL 124 Deaf Culture	3
ASL 250 *ASL Linguistics	3
ASL 270 *ASL Literature.....	3
ASL 280 *ASL Storytelling	2

Units Required 30

**Prerequisite*

AMERICAN SIGN LANGUAGE/ FOUNDATIONS OF INTERPRETING

DIVISION OF COMMUNICATIONS AND LANGUAGES

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Foundations of Interpreting will prepare students interested in laying a foundation for further study and for a baccalaureate degree in American Sign Language (ASL) Interpreting from a four-year college or university.

With a degree in interpreting, students will be prepared for employment anywhere Deaf people are present. This includes a range of possibilities from potentially interpreting for the President of the United States of America to guiding a kindergarten student on coloring inside the lines. In addition to acquiring entry level skills in the process of interpreting, students will learn important business and ethical practices. By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate in Sign Language Interpreting majors.

To acquire the **Associate of Arts Degree in Foundations of Interpreting**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ASL 101 American Sign Language I	4
ASL 102 *American Sign Language II	4
ASL 201 *American Sign Language III	4
ASL 202 *American Sign Language IV	4
ASL 124 Deaf Culture	3
ASL 211 *Beginning Interpreting + Ethics 1	3
ASL 212 *Beginning Interpreting + Ethics 2	3
ASL 220 *Pathways to Interpreting Careers.....	2
ENGL 127 or *Language Structure and Language Use:	
Introduction to Linguistics	3
ENGL 127H *Language Structure and Language Use:	
Introduction to Linguistics Honors	3

Units Required 30

**Prerequisite*

ANIMATION

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

This Degree is recommended for those who are interested in the field of Entertainment Art and Animation. Students are advised to check with the Counseling Department for the courses accepted into the Animation major at the four-year institutions where they seek transfer.

To acquire the **Associate of Arts Degree in Animation**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ANIM 101	Introduction to Digital 3D Animation.....4
ANIM 105	Principles of Digital Animation4
ART 105 or ART 105H	*Survey of Western Art: Prehistory through the Middle Ages3
ART 106 or ART 106H	*Survey of Western Art: Renaissance to Contemporary.....3
ART 120	Two Dimensional Design.....3
ART 121	Three Dimensional Design.....3
ART 130	Freehand Drawing I.....3

Choose one course from the list below:

ANIM 110	Digital Character Animation.....4
ANIM 120	Lighting and Texture4
ANIM 130	Modeling for Games4
ART 170	Introduction to Digital Painting3
ART 260	*Figure Drawing for Animators3

Units Required 26-27

*Prerequisite

ANIMATION

DIVISION OF ARTS & CULTURAL PROGRAMS

CERTIFICATE OF ACHIEVEMENT

Entertainment Art-Digital Characters

Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece, students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of intriguing and elaborate digital characters.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Characters** it is necessary to complete the following courses:

Required Courses	Units
ART 170 Introduction to Digital Painting	3
ANIM 110 Digital Character Animation	4
ANIM 130 Modeling for Games	4
ANIM 133 Character Design	4
ANIM 140 Animation Portfolio	4
ART 260 *Figure Drawing for Animators	3

Units Required 22

**Prerequisite*

Entertainment Art-Digital Environments

Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece, students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of captivating digital environments, vehicles and props.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Environments** it is necessary to complete the following courses:

Required Courses	Units
ART 170 Introduction to Digital Painting	3
ANIM 130 Modeling for Games	4
ANIM 134 Mech and Vehicle Design.....	4
ANIM 135 Environment Design.....	4
ANIM 140 Animation Portfolio.....	4

Units Required 19

ANIMATION/ GAME DEVELOPMENT

DIVISION OF ARTS & CULTURAL PROGRAMS

CERTIFICATE OF SKILL PROFICIENCY

The **Game Development certificate** is designed to provide students with the technical, creative and artistic skill sets necessary to create industry standard game art.

Required Courses	Units
ANIM 101 Introduction to Digital 3D Animation	4
ANIM 120 Lighting and Texture	4
ANIM 130 Modeling for Games	4
GDSN 178 Digital Imaging Design.....	3

Units Required 15

ANTHROPOLOGY

DIVISION OF BEHAVIORIAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER



Associate Degree
for Transfer

*A Degree with a Guarantee.*SM

Associate in Arts in Anthropology for Transfer

The **Associate in Arts in Anthropology for Transfer (AA-T Degree)** is intended to meet the lower division requirements for Anthropology majors (or similar majors) at a CSU campus that offers an Anthropology baccalaureate degree.

This degree focuses on the critical analysis of human beings from both a cultural and biological perspective. The diversity of humans is investigated through a time cross-culturally in terms of their behavioral adaptations as well as using the framework of evolution to understand biological adaptation. Students will gain a basic understanding of the various fields and sub-fields of the discipline of Anthropology through their elective choices.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Anthropology:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 19-20 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Psychology major at the CSU where they seek transfer.

Required Courses	Units
ANTH 101 or ANTH 101H	Introduction to Physical Anthropology.....3
	*Introduction to Physical Anthropology Honors.....3
ANTH 101L	*Introduction to Physical Anthropology Lab.....1
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology.....3
	*Introduction to Cultural Anthropology Honors.....3
ANTH 103	Introduction to Archaeology.....3
ANTH 104	Introduction to Language and Culture3

Choose one course from the following:

ANTH 110/ SOC 110	Human Sexuality from a Cross-Cultural Perspective3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural3
PSY 200	*Research Methods in Psychology.....3
GEOL 150	Physical Geology.....3
MATH 130 or MATH 130H or PSY 190	*Statistics.....4
	*Statistics Honors.....4
	*Statistics for the Behavioral Sciences4

Choose one course from the following:

ANTH 115	Introduction to Medical Anthropology3
ANTH 110/ SOC 110	Human Sexuality from a Cross-Cultural Perspective (if not used above)3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural (if not used above)3
HIST 156	Black American Experience to 1865.....3
HIST 157	Black American Experience Since 1865.....3
HIST 158	US Comparative History of American Indians and Black Americans3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans & Women.....3
	*US Comparative History of Mexican and Asian Americans & Women Honors3
GEOG 102	Cultural Geography.....3
SOC 101 or SOC 101H	Introduction to Sociology3
	Introduction to Sociology Honors.....3
MATH 130 or MATH 130H or PSY 190	*Statistics (if not used above).....4
	*Statistics Honors (if not used above).....4
	*Statistics for the Behavioral Sciences (if not used above)4

Required Subtotal 19-20

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Total Units 60

*Prerequisite

ARCHITECTURE

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

This program leads to the Associate of Science Degree in Architecture for university transfer to Architecture, advanced Tech Prep placement, employment in architectural firms, the AES (Architectural/Engineering/Construction) and Design industries, Public Works/Utilities. The program includes applications such as BIM (Building Information Modeling), CADD (Computer-Assisted Design and Drafting), LEED (Leadership in Energy and Environmental Design), 3D Printing, and traditional drafting methods and standards. By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to Baccalaureate Architectural-related majors but does not fulfill all transfer requirements for specific Baccalaureate degree programs.

To acquire the **Associate of Science Degree in Architecture**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ARCH 115	Introduction to Residential Architecture: Drawing and Design.....4
ARCH 125	*Residential Architecture and Detailing3
ARCH 215	*Architectural Perspective and Rendering4
ARCH 225	*Commercial Wood and Masonry Design and Construction.....4
ARCH 235	*Architectural Design Studio.....4
ARCH 260	*Advanced Architecture Using Revit and 3D Software.....4
ENGT 101	Introduction to Technical Drawing & Graphics3
ENGT 105	Architectural & Technical Freehand Sketching.....2
ENGT 150	AutoCAD for Basic CADD Applications4
 <i>Select one course from the following:</i>	
ARCH 236	*Architectural Design Studio II.....4
ARCH 261	*Revit for Advanced BIM Architectural, Structural and MEP Applications.....4

Units Required 36

**Prerequisite*

ARCHITECTURAL DESIGN & DRAWING

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The major of Architectural Design and Drawing curriculum leads to the Associate of Science Degree for employment in architectural firms, the AEC (Architectural/Engineering/Construction) and Design industries, and Public Works/ Utilities. The program includes applications such as BIM (Building Information Modeling), CADD (Computer Assisted-Design and Drafting), LEED (Leadership in Energy & Environmental Design), 3D Printing, and traditional drafting methods and standards. This program is not designed to fulfill requirements for transfer to a university in Architecture (see Associate of Science Degree in Architecture). For Baccalaureate or advanced degrees, see admission and transfer requirements for individual colleges and universities.

To acquire the **Associate of Science Degree in Architectural Design and Drawing**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ARCH 110 Construction Document Reading and Estimating	3
ARCH 115 Introduction to Residential Architecture: Drawing and Design.....	4
ARCH 125 *Residential Architecture and Detailing	3
ARCH 225 *Commercial Wood and Masonry Design and Construction.....	4
CIV 140 Civil Engineering Fundamentals.....	3
ENGT 101 Introduction to Technical Drawing & Graphics	3
ENGT 105 Architectural and Technical Freehand Sketching.....	2
ENGT 122 Engineering Design Graphics.....	4
ENGT 150 AutoCAD for Basic CADD Applications	4
ENGT 170 MicroStation for Basic CADD Applications.....	4
ENGT 200 *Intermediate AutoCAD for Design and Production.....	3

Select one course from the following:

ARCH 260 *Advanced Architecture Using Revit and 3D Software	4
ENGT 280 *Advanced MicroStation for CADD & BIM Applications.....	4
ARCH 280 *Advanced MicroStation for CADD & BIM Applications.....	4

Units Required 41

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Architectural Design & Drawing Technician

This certificate is designed for construction, housing and architectural-related careers and leads to employment in architectural design applications, contractor’s offices, building departments, utilities and building-related drafting and CADD applications.

To acquire the **Certificate of Achievement in Architectural Design and Drawing Technician**, it is necessary to complete the following courses:

Required Courses	Units
ARCH 110 Construction Document Reading and Estimating	3
ARCH 115 Introduction to Residential Architecture: Drawing & Design.....	4
ARCH 125 *Residential Architecture & Detailing.....	3
ARCH 225 *Commercial Wood & Masonry Design & Construction	4
CIV 140 Civil Engineering Fundamentals.....	3
ENGT 101 Introduction to Technical Drawing & Graphics.....	3
ENGT 105 Architectural & Technical Freehand Sketching	2
ENGT 122 Engineering Design Graphics.....	4
ENGT 150 AutoCAD for Basic CADD Applications.....	4

Units Required 30

**Prerequisite*

ART/STUDIO ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

This curriculum leads to an Associate in Arts Degree in Studio Arts. It is designed to prepare students and artists in the development of skills for possible careers in different fields of the Fine Arts, including Painting, Ceramics, Printmaking, Sculpture, and Gallery presentation. This program is good preparation for portfolio development and advancement for transfer to four-year public or private universities and art schools. Students are advised to complete the required studio courses in the order listed, before choosing the additional four electives. Students intending to transfer to a four-year university or art school should check the required courses necessary at each school when choosing from the list of elective courses.

To acquire the **Associate of Arts Degree in Studio Arts**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ART 105 or	*Survey of Western Art: Prehistory through the Middle Ages3
ART 105H	*Survey of Western Art: Prehistory through the Middle Ages Honors.....3
ART 106 or	*Survey of Western Art: Renaissance to Contemporary3
ART 106H	*Survey of Western Art: Renaissance to Contemporary Honors.....3
ART 120	Two Dimensional Design.....3
ART 121	Three Dimensional Design.....3
ART 130	Freehand Drawing I.....3
ART 135	Beginning Painting.....3

Additional twelve units from the following elective courses (choose 4):

ART 124	Color Theory3
ART 131	*Freehand Drawing II.....3
ART 136	*Intermediate Painting3
ART 140	Ceramics I.....3
ART 141	*Ceramics II3
ART 142	Introduction to Ceramic Handbuilding.....3
ART 143	*Ceramic Handbuilding II3
ART 144	*Handbuilding III.....3
ART146	Introduction to Sculpture.....3
ART 150	Beginning Printmaking3
ART 151	*Intermediate Printmaking.....3
ART 170	*Introduction to Digital Painting.....3
ART 190	Gallery & Exhibition Design.....3
ART 230	*Beginning Life Drawing.....3
ART 231	*Intermediate Life Drawing.....3
ART 232	*Advanced Life Drawing3
ART 233	*Freehand Drawing III3
ART 234	Watercolor Painting.....3
ART 235	*Advanced Painting I.....3
ART 236	*Advanced Painting II3
ART 242	*Advanced Ceramics.....3
ART 252	*Advanced Printmaking.....3
ART 260	*Figure Drawing for Animators3

Units Required 30

**Prerequisite*

ART/STUDIO ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Art/Studio Arts for Transfer

The **Associate in Arts in Art/Studio Arts Transfer (AA-T) Degree** is intended to meet the lower division requirements for Studio Arts majors (or similar majors) at a CSU campus that offers a Studio Arts baccalaureate degree.

Students who earn an AA-T in Art/Studio Arts demonstrate knowledge and skill in areas including drawing, painting, ceramics, or photography. Foundational skills and knowledge of the studio arts are the springboard for an array of careers including professional artist, illustrator, layout artist, graphic designer, animator, advertising artist, art director, art critic, art educator, art therapist, gallery and museum curator, gallery assistant and art restorer. The CSU campuses offer a wide range of specialized bachelor's degrees, including each of the studio arts as well as art education, art history, photography, digital arts and multimedia, graphic design and arts technology.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Studio Arts:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 24 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
5. Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Art major at the CSU where they seek transfer.

Required Courses	Units
ART 106 or	Survey of Western Art: Renaissance to Contemporary3
ART 106H	*Survey of Western Art: Renaissance to Contemporary Honors3
ART 120	Two Dimensional Design.....3
ART 121	Three Dimensional Design.....3
ART 130	Freehand Drawing I3

Choose one course, 3 units, from the following list:

ART 105 or	Survey of Western Art: Prehistory through the Middle Ages3
ART 105H	*Survey of Western Art: Prehistory through the Middle Ages Honors.....3
ART 107	The Art of Asia3
ART 108	Art of Mexico3

**Select one course from any three of the following areas
for a total of 9 units:**

Drawing	
ART 131 or	*Freehand Drawing II3
ART 230	*Beginning Life Drawing.....3
Painting	
ART 135	Beginning Painting.....3
Printmaking	
ART 150	Beginning Printmaking3
Ceramics	
ART 140	Ceramics I.....3
Sculpture	
ART 146	*Introduction to Sculpture.....3
Digital Art	
ART 170 or	Introduction to Digital Painting3
GDSN 178	Digital Imaging Design
Photography	
PHTO 190	Beginning Photography.....3
Color	
ART 124	Color Theory3

Other (second semester courses)

ART 136 or	*Intermediate Painting3
ART 141 or	*Ceramics II3
ART 231 or	*Intermediate Life Drawing3
ART 260	*Figure Drawing for Animators.....3

Required Subtotal.....24

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

ART HISTORY

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Art History for Transfer

The **Associate in Arts in Art History for Transfer (AA-T Degree)** is intended to meet the lower division requirements for Art History majors or Art majors with a concentration in Art History (or similar majors) at a CSU campus that offers an Art or Art History baccalaureate degree.

This degree is designed for students interested in an introduction to the discipline and methodologies of art history. The coursework will provide students with an understanding of the artistic contributions of diverse cultures and regions throughout time, of the relationship between works of art and the contexts in which they were produced, and of the ways in which works of art communicate ideas and meaning visually. Students will examine theories of interpretation and iconography, along with issues of patronage, provenance, and conservation/restoration. Students will gain critical thinking skills and a foundational knowledge of art history that will prepare them for transfer to four-year institutions and for arts and humanities-related careers.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Art History

1. Completion 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Art History major at the CSU where they seek transfer.

Required Courses	Units
ART 105 or ART105H	Survey of Western Art: Prehistory through the Middle Ages *Survey of Western Art: Prehistory through the Middle Ages Honors.....3
ART 106 or ART 106H	Survey of Western Art: Renaissance to Contemporary *Survey of Western Art: Renaissance to Contemporary Honors3
ART 130	Freehand Drawing I.....3

Choose one non-Western art history course from the following list (3 units):

ART 104	Art of the Ancient Americas.....3
ART 107	The Art of Asia.....3
ART 108	The Art of Mexico.....3

Choose one studio art course from the following list (3 units):

ART 120	Two Dimensional Design (recommended).....3
ART 121	Three Dimensional Design.....3
ART 135	Beginning Painting.....3
ART 140	Ceramics I.....3
ART 230	*Beginning Life Drawing.....3
PHTO190	Beginning Photography.....3

Choose one course from the following list (3 units):

ART 109	History of American Art3
ART 112	Art in the Modern Era3
ART 113	The History of Photography3
ART 115	The Art of Film3
ART 120	Two Dimensional Design (if not already used)3
ART 121	Three Dimensional Design (if not already used)3

Required Subtotal18

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

AUTOMOTIVE/ADVANCED ENGINE PERFORMANCE

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to work in the specialized field of Automotive Advanced Engine Performance Diagnostics. The skills developed during lecture and lab will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems), A8 (Engine Performance), and L1 (Advanced Engine Performance). The degree is designed to prepare an individual for transfer and/or entry-level employment as an Automotive Engine Performance Diagnostic Technician.

To acquire the **Associate of Science Degree in Advanced Engine Performance**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AUTO 065 Smog Technician Diagnostic and Repair Procedures	3
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 120 *Engine Tune-Up/Performance	4
AUTO 130 Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals	3
AUTO 135 Level-II Smog Technician Training Course: Smog Check Inspection Procedures	3
AUTO 155 *Automotive On-Board Diagnostics Generations One and Two (OBD I & OBD II)	3
AUTO 157 *Automotive Specialized Electronics Training	4
In addition, students must complete TWO of the following:	
AUTO 115 *Computerized Engine Controls and Diagnostics	3
AUTO 150 *Engine Electrical Systems	4
AUTO 180 *Advanced Automotive Diagnostic Procedures and Practices	3
AUTO 256 *Automotive Scantools and Vehicle Network Systems	3

Units Required 32-33

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to work in the specialized field of Automotive Advanced Engine Performance Diagnostics. The skills developed during lecture and lab will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems), A8 (Engine Performance), and L1 (Advanced Engine Performance). The Certificate is designed to prepare an individual for entry-level employment as an Automotive Engine Performance Diagnostic Technician.

To acquire the **Certificate of Achievement in Advanced Engine Performance**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 065 Smog Technician Diagnostic and Repair Procedures	3
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 120 *Engine Tune-Up/Performance	4
AUTO 130 Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals	3
AUTO 135 Level-II Smog Technician Training Course: Smog Check Inspection Procedures	3
AUTO 155 *Automotive On-Board Diagnostics Generations One and Two (OBD I & OBD II)	3
AUTO 157 *Automotive Specialized Electronics Training	4
In addition, students must complete TWO of the following:	
AUTO 115 *Computerized Engine Controls and Diagnostics	3
AUTO 150 *Engine Electrical Systems	4
AUTO 180 *Advanced Automotive Diagnostic Procedures and Practices	3
AUTO 256 *Automotive Scantools and Vehicle Network Systems	3

Units Required 32-33

*Prerequisite

AUTOMOTIVE/ADVANCED ENGINE PERFORMANCE TECHNICIAN

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is designed for the experienced Automotive Technician who desires to expand and upgrade his/her skill level to include the ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Test A6 (Electrical/Electronic Systems), A8 (Engine Performance) and L1 (Advanced Engine Performance) within the California Tune-Up and Driveability and Smog Check Program. The certificate is designed to prepare an individual for entry-level employment as a State Certified Smog Check Technician.

To acquire the **Certificate of Achievement in Advanced Engine Performance Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units
AUTO 065	Smog Technician Diagnostic and Repair Procedures.....	3
AUTO 130	Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals	3
AUTO 135	Level-II Smog Technician Training Course: Smog Check Inspection Procedures	3
AUTO 155	*Automotive On-Board Diagnostics Generations One and Two (OBD-I & OBD-II)	3

Units Required 12

**Prerequisite*

AUTOMOTIVE/ALTERNATIVE ENERGY TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are designed to prepare an individual for entry-level employment within the alternative energy industry as an integrator, designer, or as a maintenance or repair worker. This Degree is designed to increase the number of students earning an Associate degree from Rio Hondo and to guide students along a path to transfer and promotion that is both efficient and sufficient for their continued academic success.

To acquire the **Associate of Science Degree in Alternative Energy Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AET/ET 120 Introduction to Alternative Energy Technology	3
AET/ET 121 Photovoltaic Systems Design and Installation.....	3
AET/ET 122 *Advanced Photovoltaic Systems Design and Installation	3
AET/ET 123 Wind Energy Systems Design and Installation	3
AET/ET 124 *Advanced Wind Energy Systems Design and Installation	3
AET 181 or Home Energy Management and Auditing.....	3
AET 182 Industrial Energy Management and Auditing.....	3
AET 280 Green Building Design Principles.....	3
ARCH 110 Construction Document Reading and Estimating.....	3
ELEC 050 Introduction to the Electrical Industry.....	2
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4
TCED 054 OSHA Workplace Safety II	4

Units Required 34

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Alternative Energy Technology

The courses listed in this certificate compile a comprehensive list of job-related skills needed to acquire Alternative Energy technical skills. The skills acquired during class will prepare an individual for entry-level employment as an Alternative Energy Technician that may find employment as an installer, designer or as a maintenance and/or repair worker.

To acquire the **Certificate of Achievement in Alternative Energy Technology**, it is necessary to complete the following courses:

Required Courses	Units
AET/ET 120 Introduction to Alternative Energy Technology	3
AET/ET 121 Photovoltaic Systems Design and Installation.....	3
AET/ET 122 *Advanced Photovoltaic Systems Design and Installation	3
AET/ET 123 Wind Energy Systems Design and Installation	3
AET/ET 124 *Advanced Wind Energy Systems Design and Installation	3
TCED 044 OSHA 10 for the Workplace.....	1

Units Required 16

**Prerequisite*

AUTOMOTIVE/ALTERNATIVE FUELS & ADVANCED TRANSPORTATION TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

This Degree is designed to prepare students and incumbent employees as Alternative Fuels & Advanced Transportation Technology specialists. Training is in theory and practical skills. Directed practical work is given in all fuel areas, compressed and biodiesel, under simulated on-the-job conditions. The program will provide the student with the opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Associate of Science Degree in Alternative Fuels & Advanced Transportation Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AUTO 101 Introduction to Automotive Service and Repair: Underhood Service.....	3
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 106 Automotive Electrical Tools and Diagnostics Procedures.....	3
AUTO 107 *Introduction to Automotive Light Service	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 115 *Computerized Engine Controls & Diagnostics.....	3
AUTO 141 Alternative Fuels I	3
AUTO 142 Alternative Fuels II.....	4
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training	4

Units Required 32

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Alternative Fuels & Advanced Transportation Technology

This Certificate of Achievement is designed to prepare students and incumbent employees as Alternative Fuels & Advanced Transportation Technology specialists. Training is in theory and practical skills. Directed practical work is given in all fuel areas, compressed and biodiesel, under simulated on-the-job conditions. The program will provide the student the opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Certificate of Achievement in Alternative Fuels & Advanced Transportation Technology**, it is necessary to complete the following courses:

Required Courses	Units
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 115 *Computerized Engine Controls & Diagnostics.....	3
AUTO 141 Alternative Fuels I	3
AUTO 142 Alternative Fuels II.....	4
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training	4

Units Required 20

**Prerequisite*

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to enter the automotive field. The skills developed during class will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A-1 through A-8, Automotive Technician. The Degree is designed to prepare an individual for transfer and/or entry-level employment as an Automobile Technician.

To acquire the **Associate of Science Degree in Automotive Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AUTO 107 *Introduction to Automotive Light Service.....	3
AUTO 140 *Body and Chassis Electrical Systems.....	4
AUTO 150 *Engine Electrical Systems	4
AUTO 160 *Upper End Engine Rebuilding and Machining	4
AUTO 200 *Suspension Steering & Alignment Service	4
AUTO 210 *Automotive Brake Systems.....	4
AUTO 220 *Manual Drive Trains and Axles.....	4
AUTO 230 *Automatic Transmission/Transaxle	4
AUTO 240 *Heating and Air Conditioning.....	4

Units Required 35

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

General Automotive Service

The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to enter the automotive field. The skills developed during class will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A-1 through A-8, Automotive Technician. The Certificate is designed to prepare an individual for entry-level employment as an Automobile Technician.

To acquire the **Certificate of Achievement in General Automotive Service**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 107 *Introduction to Automotive Light Service.....	3
AUTO 140 *Body & Chassis Electrical Systems	4
AUTO 150 *Engine Electrical Systems	4
AUTO 160 *Upper End Engine Rebuilding and Machining	4
AUTO 200 *Suspension Steering & Alignment Service	4
AUTO 210 *Automotive Brake Systems.....	4
AUTO 220 *Manual Drive Trains and Axles.....	4
AUTO 230 *Automatic Transmission/Transaxle	4
AUTO 240 *Heating and Air Conditioning.....	4

Units Required 35

**Prerequisite*

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Brake and Suspension Service

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-4 Steering and Suspension and/or A-5 Brakes. The certificate is designed to prepare an individual for entry-level employment as a Suspension and Steering and/or Brakes Service/Repair Technician.

To acquire the **Certificate of Achievement in Brake and Suspension**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 140 *Body and Chassis Electrical Systems.....	4
AUTO 200 *Suspension, Steering and Alignment Service ...	4
AUTO 210 *Automotive Brake Systems.....	4
AUTO 211 *Antilock Brakes/Traction Control Systems	3

Units Required 18

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Engine Repair

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the area of A-1 Engine Repair. The certificate is designed to prepare an individual for entry-level employment as an Automotive Engine Repair Technician.

To acquire the **Certificate of Achievement in Engine Repair**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 101 Introduction to Automotive Service & Repair: Underhood Service.....	3
AUTO 160 *Upper-End Engine Rebuilding and Machining.....	4
AUTO 170 *Lower-End Engine Rebuilding and Machining	4
AUTO 190 Engine Blueprinting & Machining.....	3

Units Required 14

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Diesel Fuel and Emission Systems

This Certificate is designed for the experienced Automotive Technician who desires to expand and upgrade his/her skill level to include Light-Duty Vehicle Diesel Fuel Systems and related Driveability and Emission Control Systems within the Automotive Tune-up and Driveability, Electrical and Electronics, and Automotive Emission Control Systems Service and Repair spectrum. This certificate is also appropriate for emission control (smog) technicians desiring to take and pass the ASE A9 Light Vehicle Diesel Engines certification exam covering advanced auto/truck diesel technology. This certificate leads to employment as a General Diesel Auto Repair Technician, Diesel Tune-up Technician and/or State-Certified Smog Technician.

To acquire a **Certificate of Achievement in Diesel Fuel and Emission Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures.....	3
AUTO 108 *Introduction to Automotive Diesel Service & Operation.....	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up.....	3
AUTO 115 *Computerized Engine Controls and Diagnostics	3
AUTO 118 *Light-Duty Vehicle Diesel Fuel Systems & Emission Control Diagnostics	3

Units Required 15

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Fuel Injection Systems

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-6 Electrical/Electronic Systems and/or A-8 Engine Performance. The certificate is designed to prepare an individual for entry-level employment as an Electrical/Electronic Systems and/or a Fuel Injection Systems Service/Repair Technician.

To acquire the **Certificate of Achievement in Fuel Injection Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures.....	3
AUTO 110 *Introduction to Engine Diagnosis & Tune-Up	3
AUTO 128 *Fuel Injection Systems I.....	3
AUTO 138 *Fuel Injection Systems II	3
AUTO 150 *Engine Electrical Systems	4

Units Required 16

*Prerequisite

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

General Service Technician

The courses required in this certificate compile a comprehensive list of job-related skills needed to acquire general automotive skills. The skills acquired during class will prepare an individual for entry-level employment as a light-duty service technician such as a Lube Technician or positions with a franchised repair facility.

To acquire the **Certificate of Achievement in General Service Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 101 Introduction to Automotive Service and Repair: Underhood Service	3
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 106 Automotive Electrical Tools and Diagnostics Procedures.....	3
AUTO 107 *Introduction to Automotive Light Service.....	3

Units Required 12

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Safety, Comfort, and Convenience Systems

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating & Air Conditioning. The certificate is designed to prepare an individual for entry-level employment as an Electrical/Electronic Systems, Brakes Systems, and/or a Heating & Air Conditioning Service/Repair Technician.

To acquire the **Certificate of Achievement in Safety, Comfort, and Convenience Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 140 *Body and Chassis Electrical Systems.....	4
AUTO 148 *Vehicle Safety, Comfort and Convenience Systems	3
AUTO 211 *Antilock Brakes/Traction Control	3
AUTO 240 *Heating and Air Conditioning.....	4

Units Required 14

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Transmission Service

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-2 Automatic Transmission/Transaxle and/or A-3 Manual Drive Train and Axles. The certificate is designed to prepare an individual for entry-level employment as an Automatic Transmission and/or Manual Transmission Service/Repair Technician.

To acquire the **Certificate of Achievement in Transmission Service**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 125 *Power Train System Service and Transmission Diagnostics.....	4
AUTO 220 *Manual Drive Trains and Axles.....	4
AUTO 230 *Automatic Transmission/Transaxle	4

Units Required 15

*Prerequisite

BIOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science degree in Biology prepares students who are intending to transfer to a four-year institution that offers a baccalaureate degree in Biological Sciences. This degree provides for the completion of general lower-division course-work associated with the requirements for a bachelor degree in biology, biochemistry, botany, ecology, forestry, zoology, microbiology, medicine, etc. The degree is specifically designed for students intending to transfer to a CSU or UC campus. Students completing the degree will take specific courses in chemistry, biology, physics and mathematics in addition to a general education preparation such as the CSU general education plan or IGETC.

To acquire the **Associate of Science Degree in Biology**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
BIOL 200	*Principles of Biology 1 (Molecular and Cellular Biology)	5
BIOL 201	*Principles of Biology 2 (Diversity and Ecology)	5
CHEM 130	*General Chemistry I	5
CHEM 140	*General Chemistry II	5
MATH 190 or	Calculus I	4
MATH 190H	*Calculus I Honors	4
MATH 191 or	*Calculus II	4
MATH 130 or	*Statistics	4
MATH 130H	*Statistics Honors	4
PHY 150 or	*General Physics I	4
PHY 211	*Physics for Scientists and Engineers I	4
PHY 160 or	*General Physics II	4
PHY 213	*Physics for Scientists and Engineers III	4

Units Required 36

**Prerequisite*

• See assist.org for major preparation required for transfer to a UC or CSU.



BIOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.SM

Associate in Science in Biology for Transfer

The **Associate in Science in Biology for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Biology majors (or similar majors) at a CSU campus that offers a Biology baccalaureate degree.

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in biology, biochemistry, botany, ecology, forestry, zoology, microbiology, medicine, and other fields. It provides a broad, comprehensive overview of the main areas of biological science. The ability to critically think and use appropriate tools to solve biological questions will be emphasized.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Biology:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA, students should consult with a counselor for more information).
3. Completion of the 36 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) for STEM pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Biology major at the CSU where they seek transfer.

Required Courses	Units
BIOL 200	*Principles of Biology 15
BIOL 201	*Principles of Biology 25
CHEM 130	*General Chemistry I.....5
CHEM 140	*General Chemistry II.....5
MATH 190 or	*Calculus I.....
MATH 190H	*Calculus I Honors.....4
MATH 191	*Calculus II.....4
PHY 150 or	*General Physics I
PHY 211	*Physics for Scientists and Engineers I.....4
PHY 160 or	*General Physics II
PHY 213	*Physics for Scientists and Engineers III.....4

Required Subtotal.....36

CSU GE for STEM Pattern or IGETC for STEM Pattern... Varies
Transferrable Electives (*as needed to reach 60 transferable units*)

Total Units Required 60

* Prerequisite

BUSINESS ADMINISTRATION

DIVISION OF BUSINESS

ASSOCIATE OF ARTS DEGREE

This is a transfer degree which allows students to fulfill lower division pre-business requirements for the California State University System. Students should work closely with counselors to select the appropriate math course and other lower division courses which are required by the four-year college of their choice.

To acquire the **Associate of Arts Degree in Business Administration**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
ACCT 101	Financial Accounting.....	4
ACCT 102	*Managerial Accounting	4
BUSL 110	Legal Environment of Business	3
CIT 101	Introduction to Computer Information Technology	3
ECON 101 or	*Principles of Macroeconomics	3
ECON 101H	*Principles of Macroeconomics Honors	3
ECON 102 or	*Principles of Microeconomics	3
ECON 102 H	*Principles of Microeconomics Honors.....	3
MATH 130 or	*Statistics.....	4
MATH 130H or	*Statistics Honors.....	4
MATH 170	*Elements of Calculus.....	4

Units Required 24

**Prerequisite*



BUSINESS ADMINISTRATION

DIVISION OF BUSINESS

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Science in Business Administration for Transfer

The **Associate in Science in Business Administration for Transfer (AS-T) Degree** is intended to meet the lower division requirements for business majors (or similar majors) at a CSU campus that offers a business baccalaureate degree.

This degree program will help students develop the analytical, communication, and critical thinking skills necessary to succeed as a business major. Business Administration prepares students for careers in accounting, finance, management, marketing, information technologies and many others.

Students should work closely with counselors to select the appropriate math courses and other lower division courses which are required by the four-year college of their choice.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Business Administration:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 27-28 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Business Administration major at the CSU where they seek transfer.

Required Courses	Units
ACCT 101	Financial Accounting.....4
ACCT 102	*Managerial Accounting4
BUSL 110	Legal Environment of Business3
ECON 101 or	*Principles of Macroeconomics3
ECON 101H	*Principles of Macroeconomics Honors
ECON 102 or	*Principles of Microeconomics3
ECON 102H	*Principles of Microeconomics Honors

Select One:	
MATH 130 or	*Statistics.....4
MATH 130H	*Statistics Honors
MATH 170	*Elements of Calculus4

Select Two:	
CIT 101	Introduction to Computer Information Technology3
MATH 130 or	*Statistics (if not taken above)4
MATH 130H	*Statistics Honors (if not taken above).....4
MATH 170	*Elements of Calculus (if not taken above).....4
MGMT 101	Introduction to Business3
MGMT 208	*Business Communications3

Required Subtotal..... 27-28

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

BUSINESS MARKETING

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Business Marketing is designed to prepare students to be successful in the dynamic, creative, and fast-paced field of marketing. Students have the flexibility of choosing elective classes that meet their personal goals in their marketing education.

The degree is a two-year program designed to prepare students to enter the workforce or explore additional education options. This comprehensive program can prepare students to be effective in a variety of marketing careers including: sales and sales management, retail management, advertising, promotion, consumer behavior marketing research, customer service, and small business marketing.

To acquire the **Associate of Science Degree in Business Marketing**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
BUSL 110 Legal Environment of Business	3
MGMT 101 Introduction to Business	3
MGMT 150 Principles of Management	3
MRKT 170 Principles of Marketing	3

Choose one course from the following:

MGMT 108 Business Writing.....	3
MGMT 208 *Business Communications	3

Choose four courses from the following:

GIS 120 Introduction to Geographic Information Systems and Spatial Analysis.....	4
LOG 101 Supply Chain Management.....	3
MGMT 141 International Marketing	3
MRKT 171 Consumer Behavior	3
MRKT 172 Advertising and Promotion	3
MRKT 173 Principles of Selling.....	3
MRKT 174 Small Business Marketing and Advertising.....	3
MRKT 175 Retail Management	3

Units Required 27-28

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

The **Business Marketing Certificate of Achievement** is designed to prepare students to be successful in the dynamic, creative, and fast-paced field of marketing. Students have the flexibility of choosing elective classes that meet their personal goals in their marketing education.

This certificate of achievement can be used to upgrade marketing skills for professionals already working in marketing positions or to develop new skills for those students wanting to explore marketing careers. This comprehensive program can prepare students to be effective in a variety of marketing careers including: sales and sales management, retail management, advertising, promotion, consumer behavior marketing research, customer service, and small business marketing.

To acquire the **Certificate of Achievement in Business Marketing**, it is necessary to complete the following courses:

Required Courses	Units
MGMT 101 Introduction to Business	3
MRKT 170 Principles of Marketing	3

Choose four courses from the following:

GIS 120 Introduction to Geographic Information Systems and Spatial Analysis.....	4
LOG 101 Supply Chain Management.....	3
MGMT 141 International Marketing	3
MRKT 171 Consumer Behavior	3
MRKT 172 Advertising and Promotion	3
MRKT 173 Principles of Selling.....	3
MRKT 174 Small Business Marketing and Advertising.....	3
MRKT 175 Retail Management	3

Units Required 18-19

*Prerequisite

BUSINESS/RETAIL MANAGEMENT

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

The Retail Management Certificate Program is a comprehensive program designed to prepare students for the fast-paced challenges that exist in the competitive retail industry. This broad program is also intended to help students develop a clear sense of the scope of the retail manager's job and an understanding of the basic requirements for success in the future. This program is endorsed by the Western Association of Food Chains (WAFC).

To acquire the **Certificate of Achievement in Retail Management**, it is necessary to complete the following courses:

Required Courses		Units
MGMT 120	Human Relations in Business	3
MGMT 146	Human Resources Management	3
MGMT 150	Principles of Management	3
MRKT 170	Principles of Marketing	3
MRKT 175	Retail Management	3

Choose one course:

ACCT 100	Introduction to Accounting.....	3
ACCT 101 or	Financial Accounting.....	4
ACCT 101H	*Financial Accounting Honors.....	4

Choose one course:

CIT 102	Introduction to Microsoft Office.....	3
MGMT125	Managerial Computer Skills	3

Choose one course:

MGMT 108	Business Writing.....	3
MGMT 208	*Business Communications	3

Units Required 24-25

**Prerequisite*

BUSINESS/SMALL BUSINESS MANAGEMENT

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This curriculum is designed for the student wishing to own their own business. Areas of emphasis will include management, marketing, and operations management for a small business. The student will gain a general core of knowledge about different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

To acquire the **Associate of Science Degree in Small Business Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting.....4
	*Financial Accounting Honors.....4
BUSL 110	Legal Environment of Business3
CIT 101 or	Introduction to Computer Information Technology3
MGMT 125	Managerial Computer Applications3
MGMT 101	Introduction to Business3
MGMT 108 or	Business Writing.....3
MGMT 208	*Business Communications3
MGMT 130	Small Business Management-Entrepreneurship3
MRKT 170	Principles of Marketing3

Students select two classes from the following list:

CIT 155	Introduction to E-commerce.....3
MRKT 172	Advertising and Promotion3
MRKT 174	Small Business Marketing and Advertising3
MRKT 175	Retail Management3
LOG 101	Supply Chain Management.....3
MGMT 120	Human Relations in Business3
MGMT 150	Principles of Management3
MGMT 140	Introduction to International Business3

Units Required 28

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Small Business Management

This Certificate of Achievement is designed for the student wishing to own their own business. Areas of emphasis will include management, marketing, and operations management for a small business. The student will gain a general core of knowledge about different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

To acquire the **Certificate of Achievement in Small Business Management**, it is necessary to complete the following courses:

Required Courses	Units
ACCT 101	Financial Accounting.....4
ACCT 101H	*Financial Accounting Honors.....4
BUSL 110	Legal Environment of Business3
CIT 101 or	Introduction to Computer Information Technology3
MGMT 125	Managerial Computer Applications3
MGMT 101	Introduction to Business3
MGMT 108 or	Business Writing.....3
MGMT 208	*Business Communications3
MGMT 130	Small Business Management-Entrepreneurship3
MRKT 170	Principles of Marketing3

Students select two classes from the following list:

CIT 155	Introduction to E-commerce.....3
MRKT 172	Advertising and Promotion3
MRKT 174	Small Business Marketing and Advertising3
MRKT 175	Retail Management3
LOG 101	Supply Chain Management.....3
MGMT 120	Human Relations in Business3
MGMT 150	Principles of Management3
MGMT 140	Introduction to International Business3

Units Required 28

*Prerequisite

CARPENTRY- CONCRETE FORMING

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Carpentry – Concrete Forming Associate of Science Degree is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and, at the same time, protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry – Concrete Forming**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 040F *Wall Forming	1.5
CARP 040C *Print Reading	2
CARP 050G *Beam and Deck Forming.....	1.5
CARP 050H *Gang Forms	1.5
CARP 040E *Foundations & Flatwork.....	1.5
CARP 040G *Stair & Ramp Forming.....	1.5
CARP 050F *Tilt Up Panel Construction	1.5
CARP 050E *Bridge Construction	1.5
CARP 050I *Abutments	1.5
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 27.5 - 31.5

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The Carpentry – Concrete Forming Certificate of Achievement is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry – Concrete Forming**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 040F *Wall Forming	1.5
CARP 040C *Print Reading	2
CARP 050G *Beam and Deck Forming.....	1.5
CARP 050H *Gang Forms	1.5
CARP 040E *Foundations & Flatwork.....	1.5
CARP 040G *Stair & Ramp Forming.....	1.5
CARP 050F *Tilt Up Panel Construction	1.5
CARP 050E *Bridge Construction	1.5
CARP 050I *Abutments	1.5
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 27.5-31.5

**Prerequisite*

CARPENTRY – GENERAL

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Carpentry – General Associates of Science Degree is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry – General**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 040P *Basic Wall Framing	1.5
CARP 040C *Print Reading	2
CARP 040H *Commercial Floor Framing	1.5
CARP 040I *Basic Roof Framing	1.5
CARP 040E *Foundations and Flatwork	1.5
CARP 040F *Wall Forming	1.5
CARP 040G *Stair and Ramp Forming	1.5
CARP 040S *Molding and Trim	1.5
CARP 040D *Transit Level/Laser	2
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 28 - 32

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The Carpentry – General Certificate is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry – General**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 040P *Basic Wall Framing	1.5
CARP 040C *Print Reading	2
CARP 040H *Commercial Floor Framing	1.5
CARP 040I *Basic Roof Framing	1.5
CARP 040E *Foundations and Flatwork	1.5
CARP 040F *Wall Forming	1.5
CARP 040G *Stair and Ramp Forming	1.5
CARP 040S *Molding and Trim	1.5
CARP 040D *Transit Level/Laser	2
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 28 - 32

**Prerequisite*

CARPENTRY- SCAFFOLD CONSTRUCTION

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Carpentry – Scaffold Construction Associate of Science Degree is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry – Scaffold Construction**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications.....	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 070A *Basic Frame Scaffold.....	1.5
CARP 070B *Basic System Scaffold	1.5
CARP 070C *Basic Tube and Clamp Scaffold	1.5
CARP 070D *Basic Suspended Scaffold.....	1.5
CARP 070E *Intermediate Frame Scaffold.....	1.5
CARP 070F *Intermediate System Scaffold.....	1.5
CARP 040C *Print Reading	2
CARP 070G *Advanced Frame Scaffold.....	1.5
CARP 070H *Advanced System Scaffold.....	1.5
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 27.5-31.5

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The Carpentry – Scaffold Construction Certificate is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the carpentry industry.

Students will gain the skills and knowledge that allow a person to work in the carpentry industry in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry – Scaffold Construction**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
CARP 040A *Orientation	2
CARP 040B *Safety and Health Certifications.....	2
CARP 040R *Tool/Equipment Application.....	1.5
CARP 070A *Basic Frame Scaffold.....	1.5
CARP 070B *Basic System Scaffold	1.5
CARP 070C *Basic Tube and Clamp Scaffold	1.5
CARP 070D *Basic Suspended Scaffold.....	1.5
CARP 070E *Intermediate Frame Scaffold.....	1.5
CARP 070F *Intermediate System Scaffold.....	1.5
CARP 040C *Print Reading	2
CARP 070G *Advanced Frame Scaffold.....	1.5
CARP 070H *Advanced System Scaffold.....	1.5
CARP 290 *Work Experience in Carpenters Apprenticeship.....	8-12

Units Required 27.5-31.5

**Prerequisite*

CHEMISTRY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE IN SCIENCE IN CHEMISTRY FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Science in Chemistry for Transfer

The **Associate in Science in Chemistry for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Chemistry majors (or similar majors) at a CSU campus that offers a Chemistry baccalaureate degree.

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in chemistry, biochemistry, chemical engineering, and other fields. It provides a broad, comprehensive overview of the main areas of chemistry and its' applications. The ability to critically think and use appropriate tools to solve chemical questions will be emphasized.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Chemistry:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA, students should consult with a counselor for more information).
3. Completion of the 36 semester units in the major with a grade of "C" or better.
4. Certified completion of the Intersegmental General Education Transfer Curriculum (IGETC) STEM pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Chemistry major at the CSU where they seek transfer.

Required Courses		Units
CHEM 130	*General Chemistry I.....	5
CHEM 140	*General Chemistry II.....	5
CHEM 230	*Organic Chemistry I.....	5
CHEM 231	*Organic Chemistry II.....	5
MATH 190 or	*Calculus I.....	
MATH 190H	*Calculus I Honors.....	4
MATH 191	*Calculus II.....	4
PHY 211	*Physics for Scientists and Engineers I.....	4
PHY 213	*Physics for Scientists and Engineers III.....	4

Required Subtotal36

IGETC for STEM Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Total Units Required 60

**Prerequisite*

CHICANO STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Chicano Studies is intended for students wishing to acquire historical, theoretical, and cultural understanding of the Chicano (Mexican-American) community from the formation of the Chicano identity up to current issues pertaining to this group. The degree program is particularly relevant to students intending to work and/or interact in environments with high concentrations of Chicanos and/or those with familial or personal ties to the Mexican-American community. This program is also intended to prepare students interested in transferring to four-year institutions as Chicano Studies majors.

As a multidisciplinary program, the Chicano Studies Degree draws upon disciplines encompassing the humanities, language and fine arts, and a number of social sciences. Specifically, issues of politics, identity, and social justice are explored while Chicano contributions to the artistic, political, economic, and cultural landscape of mainstream U.S. society are examined.

To acquire the **Associate of Arts Degree in Chicano Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
CHST 101	Introduction to Chicano Studies.....	3
CHST 146	The Mexican-American in the History of the U.S.	3
CHST 148/ SOC 148	La Chicana: The Contemporary Mexican-American Female	3
CHST 150/ POLS 150	Chicano Politics.....	3
HUM 130	Contemporary Mexican-American Culture.....	3
Choose two courses from the list below:		
ANTH 102 or ANTH 102H	*Introduction to Cultural Anthropology	3
ANTH 125	*Introduction to Cultural Anthropology Honors.....	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
ART 108	The Art of Mexico.....	3
HIST 122	History of Mexico.....	3
HIST 131	History of the North American Indian	3
HIST 159 or HIST 159H	*US Comparative History of Mexican and Asian Americans & Women	3
HIST 159H	*US Comparative History of Mexican and Asian Americans & Women Honors	3
HIST 167	History of California	3
HUM 125 or HUM 125H	*Introduction to Mexican Culture.....	3
LIT 117 or LIT 117H	*Introduction to Mexican Culture Honors	3
LIT 117	*Mexican Literature in Translation	3
LIT 117H	*Mexican Literature in Translation Honors.....	3
LIT 149	Introduction to Chicana/Chicano Literature.....	3
MUS 129	Music in Latin American Culture	3
SOC 116	Introduction to Race and Ethnic Relations	3
SPAN 101S	Spanish for Spanish Speakers I.....	4.5
SPAN 102S	*Spanish for Spanish Speakers II.....	4.5
SPAN 102	*Spanish II	4.5
SPAN 201 or SPAN 201H	Spanish III	4.5
SPAN 201H	*Spanish III Honors.....	4.5
SPAN 202	*Spanish IV.....	4.5

Units Required 21-24

*Prerequisite

CHILD DEVELOPMENT

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirements for an Associate of Science Degree. Students planning to continue towards a Bachelor's Degree in Child Development, Home Economics or Elementary Education should consult the college or university to which they intend to transfer for specific requirements. All courses listed in Child Development electives, regardless of the catalog year or year taken, may be used as Child Development electives for the Associate Degree under any catalog year.

The State of California Commission on Teacher Credentialing has several Child Development Permits available to students completing Child Development courses. See www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html for details.

To acquire an **Associate of Science Degree in Child Development**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
CD 106	Child Growth and Development (DS 1)+.....	3
CD 110	Principles and Practices of Early Childhood Education (DS 3) +	3
CD 111	Early Childhood Education Curriculum (DS 3) +	3
CD 114	Observation and Assessment (DS3)	3
CD 208	Child, Family and Community (DS 2) +.....	3
CD 228	*Early Childhood Education Practicum** (DS3)	3
Required Subtotal.....		18

Plus nine units selected from the following courses:

CD 102	Nutrition, Health and Safety for Children (DS 7)	3
CD 103	Parenting (DS 2)	3
CD 115	Creative Art Experiences for Children (DS 3)	3
CD 118	Development of Science and Math Experiences (DS 3).....	3
CD 119	Music and Movement for Children (DS 3).....	3
CD 120	Experiences in Language Arts (DS 3)	3
CD 211	Infant and Toddler Development (DS 4).....	3
CD 213	Care and Education for Infants and Toddlers (DS 4)	3
CD 224	Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3)	3
CD 226	Introduction to Children with Special Needs.....	3
CD 229	Literacy Development for Children (DS 3)	3
CD 232	Curriculum and Strategies for Children with Special Needs	3
ED 110	Introduction to Teaching.....	3

Units Required 27

*Prerequisite

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

**3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30 am, 8:30 am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDCinfo@riohondo.edu.

CHILD DEVELOPMENT/ EARLY CHILDHOOD EDUCATION

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Science in Early Childhood Education for Transfer

The Associate in Science in Early Childhood Education for Transfer (AS-T) Degree is intended to meet the lower division requirements for Early Childhood Education majors (or similar majors) at a CSU campus that offers an Early Childhood Education baccalaureate degree.

This degree is designed for students interested in gaining the basic concepts and applications of the field of Early Childhood Education and for students looking to meet the state minimum requirements to work in the field. These courses will provide students with a solid foundation in theory, pedagogy, principles and practices that will serve them for either transferring to a four-year college or in the workplace.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Early Childhood Education:

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information).
3. Completion of the 24 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Early Childhood Education major at the CSU where they seek transfer.

Required Courses	Units
CD 102	Nutrition, Health and Safety for Children.....3
CD 106	Child Growth and Development.....3
CD 110	Principles and Practices of Early Childhood Education3
CD 111	Early Childhood Education Curriculum.....3
CD 114	Observation and Assessment.....3
CD 208	Child Family and Community.....3
CD 224	Diversity Issues in Early Childhood, School-Age and Adolescence3
CD 228	*Early Childhood Education Practicum**3

Required Subtotal.....24

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

****3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30 am, 8:30 am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDInfo@riohondo.edu.**

CHILD DEVELOPMENT/ ELEMENTARY TEACHER EDUCATION

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.SM

Associate in Arts in Elementary Teacher Education for Transfer

The **Associate in Arts in Elementary Teacher Education for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Elementary Teacher Education majors (or similar majors) at a CSU campus that offers baccalaureate degrees.

This degree is designed for students interested in an introduction to the field of Liberal Studies, Integrated Teachers Education and for students looking to further their understanding of Elementary Teacher Education. These courses will provide students with a solid foundation in Elementary Teacher Education that will serve them for transferring to a California State University.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Elementary Teacher Education:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information).
3. Completion of the 55 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Elementary Teacher Education major at the CSU where they seek transfer.

Required Courses	Units
BIOL 101	General Biology4
CD 106	Child Growth & Development3
ED 110	Introduction to Teaching3
ENGL 101	*College Composition and Research3.5
ENGL 201 or	*Advanced Composition and Critical
	Thinking
ENGL 201H	*Advanced Composition and Critical3.5
	Thinking Honors.....3
GEOL 150	Physical Geology.....3
GEOL 151	Physical Geology Laboratory1
GEOG 103	World Regional Geography3
HIST 101	History of World Civilization
	to the 17th Century.....3
HIST 143 or	History of the United States to 1877
HIST 143H	*History of the United States to 1877
	Honors.....3
LIT 102 or	*Approaches to Literature
LIT 102H	*Approaches to Literature Honors3
MATH 140	*Mathematics for Elementary Teachers.....4
PHY 120	*Physics for Everyday Use.....4
CHEM 120	*Introduction to Chemistry5
POLS 110 or	Government of the United States
POLS 110H	*Government of the United States Honors3
SPCH 101 or	Public Speaking
SPCH 101H	*Public Speaking Honors3

Choose one course from the following list:

ART 105 or	Survey of Western Art: Prehistory
	Through Middle Ages
ART 105H	*Survey of Western Art: Prehistory
	through Middle Ages Honors..... 3
ART 110	Understanding Visual Art..... 3
DANC 199 or	Dance Appreciation 3
DANC 199H	*Dance Appreciation Honors..... 3
MUS 133	Music Appreciation..... 3
THTR 101	Theatre Arts Appreciation 3

Required Subtotal.....55

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

*Prerequisite

CHILD DEVELOPMENT

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

CERTIFICATE OF ACHIEVEMENT

Child Development

This curriculum is designed to meet the minimum educational requirements of the California Department of Social Services (DSS) to secure employment in state licensed private preschools and childcare centers as Infant/Toddler, Preschool or School-Age Teachers or as Program Director. The curriculum will also meet requirements for acquiring Assistant and Associate Teacher Level Child Development Permits from the California Commission on Teacher Credentialing in order to secure employment in state and federally funded programs for children. All courses listed in Child Development electives, regardless of the catalog year or year taken, may be used as Child Development electives for the Certificate of Achievement under any catalog year.

The State of California Commission on Teacher Credentialing has several Child Development Permits available to students completing Child Development courses. See www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html for details.

To acquire a **Certificate of Achievement in Child Development**, it is necessary to complete the following courses:

Required Courses		Units
CD 106	Child Growth and Development (DS 1)+.....	3
CD 110	Principles and Practices of Early Childhood Education (DS 3) +	3
CD 111	Early Childhood Education Curriculum (DS 3) +	3
CD 114	Observation and Assessment (DS3)	3
CD 208	Child, Family and Community (DS 2) +.....	3
CD 228	*Early Childhood Education Practicum** (DS3).....	3

Required Subtotal.....18

Plus nine units selected from the following courses:

CD 102	Nutrition, Health and Safety for Children (DS 7)	3
CD 103	Parenting (DS 2)	3
CD 115	Creative Art Experiences for Children (DS 3)	3
CD 118	Development of Science and Math Experiences (DS 3).....	3
CD 119	Music and Movement for Children (DS 3)	3
CD 120	Experiences in Language Arts (DS 3).....	3
CD 211	Infant and Toddler Development (DS 4).....	3
CD 213	Care and Education for Infants and Toddlers (DS 4)	3
CD 224	Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3)	3
CD 226	Introduction to Children with Special Needs.....	3
CD 229	Literacy Development for Children (DS 3)	3
CD 232	Curriculum and Strategies for Children with Special Needs	3
ED 110	Introduction to Teaching	3

Units Required 27

**Prerequisite*

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

****3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30 am, 8:30 am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDCinfo@riohondo.edu.**

CHILD DEVELOPMENT

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

CERTIFICATE OF ACHIEVEMENT

Elementary Teacher Education

This Certificate of Achievement is meant to be an introduction of the skills required in Elementary Education for students interested in Elementary Education majors (or similar majors) at a CSU that offers baccalaureate degrees.

To acquire the **Certificate of Achievement in Elementary Teacher Education**, it is necessary to complete the following courses:

Required Courses	Units
CCD 106 Child Growth and Development.....	3
ED 110 Introduction to Teaching.....	3
COUN 101 or College and Life Success.....	3
EDEV 101 College and Career Exploraiton.....	3
SPCH 101 or Public Speaking.....	3
SPCH 101H *Public Speaking Honors.....	3

Units Required 12

**Prerequisite*

Preschool Teacher

The following courses meet the minimum educational requirements under Title 22 (Department of Social Services-DSS) to qualify the student to teach in a state licensed preschool or childcare program (private for-profit or private nonprofit). Completion of these courses will also qualify a student to apply for a Child Development Permit at the Assistant level through the California Commission on Teacher Credentialing. The Assistant Level Permit will qualify a student to teach in state or federally funded programs. These courses also meet the unit requirements for the Associate Teacher Level on the Child Development Permit Matrix (work experience is also required for this permit level). The student must have attained a grade of "C" or higher in each course.

See www.ctc.ca.gov/credentials/leaflets/c1797.pdf for details.

To acquire the **Certificate of Achievement in Preschool Teacher**, it is necessary to complete the following courses:

Required Courses	Units
CD 102 Nutrition, Health and Safety for Children (DS 7).....	3
CD 106 +Child Growth and Development (DS 1).....	3
CD 110 +Principles and Practices of Early Childhood Education (DS 3).....	3
CD 111 +Early Childhood Education Curriculum (DS3).....	3
CD 208 +Child Family and Community (DS 2).....	3

Units Required 15

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

CHILD DEVELOPMENT

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

CERTIFICATE OF ACHIEVEMENT

Infant/Toddler Specialization

The following courses will prepare students to work with infants and toddlers by providing developmental information regarding this age group and techniques to facilitate and support the care and education of infants and toddlers.

To acquire the **Certificate of Achievement in Infant/Toddler Specialization**, it is necessary to complete the following courses:

Required Courses	Units
CD 106	Child Growth and Development.....3
CD 110	Principles and Practices of Early Childhood Education.....3
CD 211	Infant and Toddler Development3
CD 213	Care and Education for Infants and Toddlers....3

Units Required 12

Language and Literacy Specialization

The following courses will prepare students to effectively facilitate and support the language development of children. It will also provide essential information regarding Emergent Literacy and how it supports the development of effective reading skills in children.

To acquire the **Certificate of Achievement in Language and Literacy Specialization**, it is necessary to complete the following courses:

Required Courses	Units
CD 106	Child Growth and Development 3
CD 110	Principles and Practices of Early Childhood Education..... 3
CD 120	Experiences in Language Arts.....3
CD 229	Literacy Development for Children ... 3

Units Required 12

Special Education Specialization

The following courses will prepare students to work with children with special needs by providing introductory information regarding the types of special needs, statutory requirements for providing educational programming for children with special needs and techniques to facilitate and support the learning of children with special needs.

To acquire the **Certificate of Achievement in Special Education Specialization**, it is necessary to complete the following courses:

Required Courses	Units
CD 106	Child Growth and Development.....3
CD 110	Principles and Practices of Early Childhood Education.....3
CD 226	Introduction to Children with Special Needs3
CD 232	Curriculum and Strategies for Children with Special Needs3

Units Required 12

CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The following Civil Design Technology curriculum will lead to the Associate of Science Degree and prepare students for employment in the field of Civil Engineering as a technician with the potential for more rapid advancement to positions of greater responsibility in surveying and civil construction. Completion of this program is not designed to fulfill the requirements for transfer to a university in Civil Engineering. For Baccalaureate or advanced degrees, students will need to complete additional courses in mathematics and physics. Please see a counselor for requirements.

To acquire the **Associate of Science Degree in Civil Design Technology**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ARCH 115 Introduction to Residential Architecture: Drawing and Design.....	4
CIV 140 Civil Drafting Fundamentals	3
ENGT 101 Introduction to Technical Drawing & Graphics	3
ENGT 105 Architectural and Technical Freehand Sketching.....	2
ENGT 122 Engineering Design Graphics.....	4
ENGT 150 AutoCAD for Basic CADD or Applications.....	4
ENGT 170 MicroStation for Basic CADD Applications.....	4

Then select one field of specialization for an additional 13 to 16 units

Structures

CIV 142 Introduction to Land Surveying and GPS.....	4
ARCH 260 *Advanced Architecture Using Revit and 3D Software.....	4
ARCH 125 *Residential Architecture and or Detailing.....	3
ARCH 225 *Commercial Wood and Masonry Design and Construction	4
ARCH 261 *Revit for Advanced BIM Architectural,or Structural and MEP Applications.....	4
ARCH 280 *Advanced MicroStation for CADD & BIM Applications.....	4

Total Units 35-36

Land Development

CIV 142 Introduction to Land Surveying and GPS.....	4
CIV 143 *Applications to Surveying and GPS.....	4
CIV 241 *Civil Engineering Drafting and Design	3
CIV 245 *Civil Engineering Design and or Modeling	3
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis.....	4

Total Units 34-35

Piping

ENGT 265 Pressure Piping Design.....	3
ENGT 266 Pressure Piping Applications.....	3
ARCH 110 Construction Document Reading and Estimating	3
ARCH 260 *Advanced Architecture Using Revit and or 3D Software.....	4
ARCH 280 *Advanced MicroStation for CADD & BIM Applications.....	4

Total Units 33

Transportation

LOG 120 Transportation Management.....	3
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4
CIV 142 Introduction to Land Surveying and GPS.....	4
CIV 241 *Civil Engineering Drafting and Design.....	3

Total Units 34

Environmental

CIV 142 Introduction to Land Surveying and GPS.....	4
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis.....	4
GIS 230 *Geographic Information Systems (GIS) in Environmental Technology	3
ET 280 Green Building Design Principles.....	3

Total Units 34

**Prerequisite*

CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Civil Design Technology

The following Civil Design Technology curriculum will lead to the Certificate of Achievement and prepare students for employment in the field of Civil Engineering as a technician with the potential for more rapid advancement to positions of greater responsibility in surveying and civil construction.

To acquire the **Certificate of Achievement in Civil Design Technology**, it is necessary to complete the following courses:

Required Courses

	Units
ARCH 115	Introduction to Residential Architecture.....4
CIV 140	Civil Drafting Fundamentals3
CIV 142	Introduction to Surveying and GPS.....4
CIV 241	*Civil Engineering Drafting and Design3
CIV 245	*Civil Engineering Design and Modeling3
ENGT 101	Introduction to Technical Drawing & Graphics.....3
ENGT 105	Architectural and Technical Freehand Sketching2
ENGT 122	Engineering Design Graphics4
ENGT 138	Engineering Careers and Applications.....2
ENGT 150	AutoCAD for Basic CADD Applications4
ENGT 170	MicroStation for Basic CADD Applications4
ENGT 200	*Intermediate AutoCAD for Design and Production3
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis4
GIS 221	*Cartography Design and Geographic Information Systems.....4

Units Required 47

**Prerequisite*



CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Civil Design & Drawing

This certificate is designed for civil engineering careers and leads to employment in civil design applications, public works, utilities and CADD/Drafting-related industries.

To acquire the **Certificate of Achievement in Civil Design & Drawing**, it is necessary to complete the following courses:

Required Courses	Units
CIV 140 Civil Drafting Fundamentals	3
CIV 142 Introduction to Surveying and GPS.....	4
ENGT 101 Introduction to Technical Drawing & Graphics.....	3
ENGT 138 Engineering Careers and Applications.....	2
ENGT 150 AutoCAD for Basic CADD Applications	4
ENGT 170 MicroStation for Basic CADD Applications	4
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4

Plus 4 units from the following:

ARCH 115 or Introduction to Residential Architecture.....	4
ENGT 122 Engineering Design Graphics.....	4

Units Required 28

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Surveying, Mapping & Drawing

This certificate is designed for surveying careers and leads to employment in civil design applications, public work, utilities and CADD/Drafting-related industries.

To acquire the **Certificate of Achievement in Surveying, Mapping & Drawing**, it is necessary to complete the following courses:

Required Courses	Units
CIV 140 Civil Drafting Fundamentals	3
CIV 142 Introduction to Surveying and GPS.....	4
ENGT 101 Introduction to Technical Drawing & Graphics.....	3
ENGT 122 Engineering Design Graphics.....	4
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4
GIS 221 *Cartography Design and Geographic Information Systems	4

Select one course from the following:

ENGT 150 or AutoCAD for Basic CADD Applications	4
ENGT 170 MicroStation for Basic CADD Applications	4

Units Required 26

*Prerequisite

Additional Recommended courses: GEOG 101 and MATH 175.

COMMUNICATION STUDIES

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Communication Studies for Transfer

The **Associate in Arts in Communication Studies for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Communication Studies majors (or similar majors) at a CSU campus that offers a Communication Studies baccalaureate degree.

This degree is designed for students interested in the study and practice of human communication. The Associate in Arts in Communication Studies for Transfer Degree offers students comprehensive knowledge of the nature of communication, including theoretical foundations and applicable skills. Students will develop skills in advocacy, critical thinking, debate, interpersonal communication, oral communication, performance, public speaking, and small group communication. Career opportunities may include: administration, advertising, broadcasting, business communications, consulting, government services, journalism, law, marketing, performance, politics, public relations, sales, teaching, and other professions in which an understanding of and facility with the process of communication is essential.

In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Arts in Communication Studies for Transfer Degree:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18-18.5 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Communication Studies major at the CSU where they seek transfer.

Required Courses		Units
SPCH 100	Interpersonal Communication.....	3
SPCH 101 or SPCH 101H	Public Speaking..... *Public Speaking Honors	3
SPCH 140	Argumentation and Debate	3

Choose 6 units from List B
(A maximum of 3 units in Forensics):

List B		
SPCH 110	Forensics: Speech and Debate Team.....	1-4
SPCH 130	Oral Interpretation.....	3
SPCH 150	Intercultural Communication	3
SPCH 240	*Argumentation and Discussion.....	3

Choose 3-3.5 additional units from List B or List C

List C:		
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology..... *Introduction to Cultural Anthropology Honors.....	3 3
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking..... *Advanced Composition and Critical Thinking Honors.....	3.5 3.5
JOUR 120	Communications Reporting and Writing.....	3
PSY 101 or PSY 101H	Introductory Psychology..... *Introductory Psychology Honors.....	3 3
SOC 101 or SOC 101H	Introduction to Sociology	3
SPCH 132	*Introduction to Sociology Honors	3
	Readers Theatre	3

Required Subtotal.....18-18.5

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

COMPUTER INFORMATION TECHNOLOGY/CLOUD COMPUTING PRACTITIONER

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

The Cloud Computing program prepares students to design solutions for Infrastructure as a Service (IaaS) architectures by provisioning computing instances, establishing virtual private networks, and managing databases and storage within a secure online environment. Students produce dynamic solutions responsive to information and computing technology workloads with on-demand pay-as-you-go pricing allowing flexibility for small business, entrepreneurship and enterprise adoption. Industry certifications are embedded to prepare for occupations in Cloud Architect, Cloud Support Associate, Cloud Engineer or Cloud Technicians. Some preparation in information technology or computer programming is recommended.

To acquire the **Certificate of Achievement in Computer Information Technology/Cloud Computing Practitioner**, it is necessary to complete the following courses:

Required Courses		Units
CIT 114	Introduction to Cloud Computing with DevOps	4
CIT 172	*Database Essentials in Amazon Web Services.....	3
CIT 173	*Compute Engines in Amazon Web Services.....	1.5
CIT 174	*Security in Amazon Web Services.....	1.5
CIT 175	*DevOps Engineering in Amazon Web Services.....	3
 <i>Choose one of the following options:</i>		
CIT 139	*Linux I	3
or		
CIT 171	*Network+	3
or		
CIT 200	*Systems Analysis and Design	3
or		
CIT 111	Introduction to Programming.....	3
CIT 127	*Python Programming I.....	3

Units Required 16-19



COMPUTER INFORMATION TECHNOLOGY/COMPUTER SYSTEMS

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This curriculum is designed to prepare students for employment in computer applications with emphasis in programming language C++, Java, or Python.

To acquire the **Associate of Science Degree in Computer Information Technology/Computer Systems**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 111 Introduction to Programming.....	3
CIT 119 Microsoft® Access®.....	3
CIT 200 *Systems Analysis and Design.....	3

Choose one area of specialization below:

C++ Programming option

CIT 125 Introduction to C++ Programming.....	4
CIT 126 *Advanced C++ Programming.....	4

Java Programming option

CIT 135 Introduction to Java Programming.....	4
CIT 136 *Advanced Java Programming.....	4

Python Programming option

CIT 127 *Python Programming I.....	3
CIT 128 *Python Programming II.....	3

Units Required 18-20

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

This certificate program is designed to prepare students for employment in computer applications with emphasis in programming language C++, Java, or Python.

To acquire the **Certificate of Achievement in Computer Information Technology/Computer Systems**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 111 Introduction to Programming.....	3
CIT 119 Microsoft® Access®.....	3
CIT 200 *Systems Analysis and Design.....	3

Choose one area of specialization below:

C++ Programming option

CIT 125 Introduction to C++ Programming.....	4
CIT 126 *Advanced C++ Programming.....	4

Java Programming option

CIT 135 Introduction to Java Programming.....	4
CIT 136 *Advanced Java Programming.....	4

Python Programming option

CIT 127 *Python Programming I.....	3
CIT 128 *Python Programming II.....	3

Units Required 18-20

*Prerequisite

COMPUTER INFORMATION TECHNOLOGY/CYBERSECURITY

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for a degree in Computer Information Technology/Cybersecurity. The courses needed for the degree are designed for those wishing to pursue a career in Computer Information Technology with emphasis in Cybersecurity.

To acquire the **Associate of Science Degree in Computer Information Technology/Cybersecurity**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 180 *PC Maintenance – A+ Certification	4
CIT 221 *Ethical Hacking.....	3

Select one course from the following:

CIT 171 *Network +	3
CIT 210 *Cisco Networking I.....	3

Select one course from the following:

CIT 125 Introduction to C++ Programming.....	4
CIT 127 *Python Programming I.....	3
CIT 135 Introduction to Java Programming	4

Select two courses from the following:

CIT 170 *Server+	3
CIT 192 *Security+	3
CIT 200 *Systems Analysis and Design	3
CIT 211 *Cisco Networking II.....	3
MGMT 208 *Business Communications.....	3

Select one course from the following:

PSY 190 *Statistics for the Behavioral Sciences	4
MATH 130 or *Statistics.....	4
MATH 130H *Statistics Honors	4
MATH 170 *Elements of Calculus	4
MATH 190 or *Calculus I	4
MATH 190H *Calculus I Honors.....	4

Units Required 26-27

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Cybersecurity. The courses needed for the certificate are designed for those wishing to pursue a career in cybersecurity.

To acquire the **Certificate of Achievement in Computer Information Technology/Cybersecurity**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101 Introduction to Computer Information Technology	3
CIT 127 *Python Programming I.....	3
CIT 180 *PC Maintenance – A+ Certification	4

Select one course from the following:

CIT 171 *Network +	3
CIT 210 *Cisco Networking I.....	3

Select two courses from the following:

CIT 170 *Server +	3
CIT 192 *Security +	3
CIT 200 *Systems Analysis and Design	3
CIT 211 *Cisco Networking II.....	3
CIT 221 *Ethical Hacking.....	3
MGMT 208 *Business Communications.....	3

Select one course from the following:

PSY 190 *Statistics for the Behavioral Sciences	4
MATH 130 or *Statistics.....	4
MATH 130H *Statistics Honors	4
MATH 170 *Elements of Calculus	4
MATH 190 or *Calculus I	4
MATH 190H *Calculus I Honors.....	4

Units Required 23

*Prerequisite

COMPUTER INFORMATION TECHNOLOGY/INFORMATION SYSTEMS AND TECHNOLOGY

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for a Degree in Computer Information Technology/ Information Systems and Technology. The courses needed for the degree are designed for those wishing to pursue a career in cybersecurity.

To acquire the **Associate of Science Degree in Computer Information Technology/Information Systems and Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
MATH 130 or	*Statistics.....	4
MATH 130H	*Statistics Honors	4
CIT 101	Introduction to Computer Information Technology	3
CIT 111	Introduction to Programming.....	3
CIT 192	*Security+	3
CIT 200	*Systems Analysis and Design.....	3
CIT 210	*Cisco Networking I.....	3
BUSL 110	Legal Environment of Business	3

Select one course from the following:

MATH 160	*College Algebra	4
MATH 170	*Elements of Calculus.....	4
MATH 180	*Pre-Calculus	4
MATH 190 or	*Calculus I	4
MATH 190H	*Calculus I Honors.....	4

Select one option from the following:

Cybersecurity Option

ACCT 101 or	Financial Accounting.....	4
ACCT 101H	*Financial Accounting Honors.....	4
ACCT 102	*Managerial Accounting	4

Communications Option

CIT 211	*Cisco Networking II.....	3
MGMT 208	*Business Communications.....	3

Units Required 32-34

*Prerequisite



COMPUTER INFORMATION TECHNOLOGY/NETWORK ADMINISTRATOR

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for an Associate of Science Degree in Computer Information Technology/Network Administrator. The courses needed for the degree are designed for those who wish to pursue a career in Information Technology as a Network Administrator.

To acquire the **Associate of Science Degree in Computer Information Technology/Network Administrator**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ACCT 100 Introduction to Accounting.....	3
MGMT 101 Introduction to Business	3
MGMT 108 Business Writing.....	3
CIT 101 Introduction to Computer Information Technology.....	3
CIT 180 *PC Maintenance A+ Certification.....	4
CIT 192 *Security+	3
CIT 210 *Cisco® Networking I.....	3
CIT 211 *Cisco® Networking II.....	3
CIT 212 *Cisco® Networking III.....	3
CIT 213 *Cisco® Networking IV.....	3

Units Required 31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Network Administrator. The courses needed for the certificate are designed for those who wish to pursue a career in Information Technology as a Network Administrator.

To acquire the **Certificate of Achievement in Computer Information Technology/Network Administrator**, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
CIT 101 Introduction to Computer Information Technology	3
CIT 180 *PC Maintenance A+ Certification.....	4
CIT 192 *Security+.....	3
CIT 210 *Cisco® Networking I.....	3
CIT 211 *Cisco® Networking II.....	3
CIT 212 *Cisco® Networking III.....	3
CIT 213 *Cisco® Networking IV.....	3

Units Required 22

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY/ OFFICE TECHNOLOGIES

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This curriculum is designed to prepare students for employment as computer specialists in business-related programming or microcomputer applications.

To acquire the **Associate of Science Degree in Computer Information Technology/Office Technologies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC)

Required Courses	Units
ACCT 100 Introduction to Accounting.....	3
CIT 060 Windows Operating System	3
CIT 101 Introduction to Computer Information	3
Technology	3
CIT 103 Microsoft® Word®	3
CIT 117 Microsoft® Excel®	3
CIT 119 Microsoft® Access®	3
MGMT 108 Business Writing.....	3

Units Required 21

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

This curriculum is designed to prepare students for employment as computer specialists in business-related programming or microcomputer applications.

To acquire the **Certificate of Achievement in Computer Information Technology/Office Technologies**, it is necessary to complete the following courses:

Required Courses	Units
ACCT 100 Introduction to Accounting.....	3
CIT 060 Windows Operating System	3
CIT 101 Introduction to Computer Information	3
Technology	3
CIT 103 Microsoft® Word®	3
CIT 117 Microsoft® Excel®	3
CIT 119 Microsoft® Access®	3
MGMT 108 Business Writing.....	3

Units Required 21

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY/SYSTEM ADMINISTRATOR

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for an Associate of Science Degree in Computer Information Technology/System Administrator. The courses needed for the degree are designed to prepare students for employment in Computer Information Technology as a System Administrator with the option to focus on Microsoft Server Operating Systems or Linux Server Operating Systems.

To acquire the **Associate of Science Degree in Computer Information Technology/System Administrator**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ACCT 100 Introduction to Accounting.....	3
MGMT 101 Introduction to Business	3
MGMT 108 Business Writing.....	3
CIT 101 Introduction to Computer Information Technology.....	3
CIT 130 Windows Certification.....	3
CIT 160 Introduction to Operating Systems	3
CIT 180 *PC Maintenance – A+ Certification	4
CIT 192 *Security+	3

Choose MS Windows Server Option or Red Hat Linux Option

CIT 131 Windows Server Active Directory	3
CIT 133 Windows Server Applications	
OR Infrastructure.....	3
CIT 139 *Linux I	3
CIT 140 *Linux II.....	3

Units Required 31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/System Administrator. The courses needed for the certificate are designed to prepare students for employment in Computer Information Technology as a System Administrator with the option to focus on Microsoft Server Operating Systems or Linux Server Operating Systems.

To acquire the **Certificate of Achievement in Computer Information Technology/System Administrator**, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 130 Windows Configuration.....	3
CIT 160 Introduction to Operating Systems	3
CIT 180 *PC Maintenance – A+ Certification	4
CIT 192 *Security+	3

Choose MS Windows Server Option or Red Hat Linux Option

CIT 131 Windows Server Active Directory	3
CIT 133 Windows Server Applications	
OR Infrastructure.....	3
CIT 139 *Linux I	3
CIT 140 *Linux II.....	3

Units Required 22

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

Cybersecurity Technician

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Cybersecurity Technician. The courses needed for the certificate are designed for those wishing to pursue a career as a computer support specialist.

To acquire the **Certificate of Achievement in Computer Information Technology/Cybersecurity Technician**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 170 *Server+	3
CIT 171 *Network+	3
CIT 180 *PC Maintenance A+ Certification.....	4
CIT 192 *Security+	3

Units Required 16

**Prerequisite*

Ethical Hacker

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Ethical Hacker. The courses needed for the certificate are designed for those wishing to pursue a career in ethical hacking.

To acquire the **Certificate of Achievement in Computer Information Technology/Ethical Hacker**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 127 *Python Programming I.....	3
CIT 170 *Server+	3
CIT 171 *Network+	3
CIT 180 *PC Maintenance A+ Certification.....	4
CIT 192 *Security+	3
CIT 221 *Ethical Hacking.....	3

Units Required 22

**Prerequisite*

Network Technician

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Network Technician. The courses needed for the certificate are designed for those who wish to pursue a career in Information Technology as a Network Technician.

To acquire the **Certificate of Achievement in Computer Information Technology/Network Technician**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101 Introduction to Computer Information Technology.....	3
CIT 210 *Cisco® Networking I.....	3
CIT 211 *Cisco® Networking II.....	3
CIT 192 *Security +	3
CIT 212 *Cisco Networking III.....	3
CIT 213 *Cisco Networking IV	3

Units Required 18

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY

DIVISION OF BUSINESS

CAREER CERTIFICATE

Desktop Technician

This curriculum is designed to prepare students for employment as entry level Desktop Support Technicians. Students that successfully complete the **Desktop Technician certificate** will be able to install, operate, upgrade deploy and troubleshoot personal computers and Windows based workstations. This certificate also prepares students to pass the CompTIA A+ examination, CompTIA Security + examination and the Windows Client Operating System examination.

Required Courses		Units
CIT 101	Introduction to Computer Information Technology.....	3
CIT 130	Windows Configuration.....	3
CIT 180	*PC Maintenance - A+ Certification	4
CIT 192	*Security+	3

Units Required 13

*Prerequisite

CAREER CERTIFICATE

Entry Network Technician

This curriculum is designed to prepare students for employment as entry level network technicians. Students that successfully complete the **Entry Network Technician certificate** will be able to install, operate and troubleshoot small enterprise networks and perform basic network security. This certificate also prepares students to pass the CISCO ICND-1 examination and the CompTIA Security+ examination..

Required Courses		Units
CIT 101	Introduction to Computer Information Technology.....	3
CIT 210	*Cisco® Networking I.....	3
CIT 211	*Cisco® Networking II	3
CIT 192	*Security+	3

Units Required 12

*Prerequisite

CAREER CERTIFICATE

PC Repair Technician

This curriculum is designed to prepare students for employment as entry level PC Repair Technicians. Students that successfully complete the **PC Repair Technician certificate** will be able to install, operate, upgrade and troubleshoot personal computers. This certificate also prepares students to pass the CompTIA A+ examination.

Required Courses		Units
CIT 101	Introduction to Computer Information Technology.....	3
CIT 130	Windows Configuration.....	3
CIT 180	*PC Maintenance - A+ Certification	4

Units Required 10

*Prerequisite

COMPUTER SCIENCE

DIVISION OF BUSINESS

ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE FOR TRANSFER



Associate Degree
for Transfer

*A Degree with a Guarantee.*SM

Associate in Science in Computer Science for Transfer

The **Associate in Science in Computer Science for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Computer Science majors (or similar majors) at a CSU campus that offers a Computer Science baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Computer Science. Computer Science is the study of representational computation, data access methods, programming languages, algorithmic modeling, software design, testing and development. Students in the Computer Science program study and apply their knowledge of mathematics, physics and logic to solve a variety of problems using current technology. Coursework includes programming languages and concepts, systems analysis, mathematics, physics, computer hardware and data structures.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Computer Science:

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA; students should consult with a counselor for more information).
3. Completion of the 28-29 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSUGE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Computer Science major at the CSU where they seek transfer.

Required Courses		Units
CIT 127	*Python Programming I.....	3
CIT 128	*Python Programming II.....	3
CS 142	*Computer Architecture and Organization.....	3
CS 152	*Discrete Structures.....	3
MATH 190 or	*Calculus I.....	4
MATH 190H	*Calculus I Honors.....	4
MATH 191	*Calculus II.....	4
PHY 211	*Physics for Scientists and Engineers I.....	4

Select one course from the following:

PHY 213	*Physics for Scientists and Engineers III.....	4
BIOL 200	*Principles of Biology I (Molecular and Cellular Biology).....	5
CHEM 130	*General Chemistry I.....	5

Required Subtotal..... 28-29

CSU GE or IGETC Pattern..... Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

CONSTRUCTION ENGINEERING MANAGEMENT

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The identified curriculum will prepare students for employment as Civil Engineering technicians – specifically with respect to construction support positions. The coursework incorporates concepts and theory of construction as well as practical application of construction management tasks. The degree additionally provides a framework of study that is common in Bachelor’s-level programs for explicitly this field of study.

To acquire the **Associate of Science Degree in Construction Engineering Management**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
ARCH 110	Construction Document Reading and Estimating	3
ARCH 115	Introduction to Residential Architecture: Drawing and Design.....	4
ARCH 225	*Commercial Wood & Masonry Design and Construction.....	4
CIV 140	Civil Engineering Fundamentals.....	3
CIV 210	Concrete Technology and Testing.....	2
ENGR 235	*Engineering Mechanics: Statics	3
ACCT 203	*Introduction to Cost Accounting.....	3
MATH 130 or	*Statistics.....	4
MATH 130H	*Statistics Honors.....	4

Units Required 26

**Prerequisite*

CORRECTIONS

DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

The correctional program is designed to prepare students to enter the field of corrections as competent correctional officers, counselors, probation or parole aides, or paraprofessional volunteers for any correctional agency. The student may elect to transfer to a four-year college or seek entry-level employment in a correctional agency.

The courses will provide an academic as well as a practical training program. This will train persons seeking to enter the field of corrections and will increase the education of persons already employed in corrections and may also be beneficial to update the skills and knowledge of professional workers in the field of corrections.

The Associate of Science Degree requires 24 units in Corrections. This pattern of courses has been endorsed by the Joint Apprenticeship Committee of the California Department of Corrections, California Youth Authority and California Correctional Peace Officers Association as a program which would be of benefit to apprentices.

To acquire the **Associate of Science Degree in Corrections**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
AJ 041	Effective Written Communications for Public Service Personnel	3
CORR 101	Introduction to Corrections.....	3
CORR 104	Control and Supervision in Corrections	3
CORR 106	Legal Aspects of Corrections	3
CORR 134	Introduction to Interviewing and Counseling.....	3
CORR 235	Conflict Resolution	3
Required Subtotal		18

Plus 6 units selected from the following courses:

AJ 101	Introduction to Administration of Justice	3
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues within Public Service.....	3
AJ 106	*Criminal Law I	3
AJ 107	*Criminal Law II.....	3
AJ 207	Juvenile Law and Procedure	3
AJ 208	Principles of Investigation.....	3
AJ 215	Vice and Narcotics Control	3
AJ 228	Police Field Operations	3
AJ 250	Contemporary Issues in the Criminal Justice System	3
AJ 275	Introduction to Forensic Science	3
CORR 208	Leadership in Corrections.....	3
CORR 209	Case Load Management	3
CORR 210	Supervision in Public Safety.....	3
CORR 264	Inmate Discipline in Corrections.....	3
CORR 265	Supervision of Sex Offenders.....	3
CORR 290	Public Safety Communications	3

Units Required 24

*Prerequisite

DANCE

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS DIVISION

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Dance is a comprehensive two-year program promoting both high artistic and technical standards. The degree fulfills the needs of students seeking professions in dance as performers, choreographers, and/or dance educators and provides training for careers and employment in the performing arts, education, choreography, movement therapy, studio and arts management, arts consultancy, dance criticism, fitness, and community dance programs. An integral part of the AA in Dance is to prepare students for matriculation into Bachelor of Arts or Bachelor of Fine Arts program at a four-year college or university. See admission requirements of individual colleges and universities and transfer requirements for specific majors.

To acquire an **Associate of Arts Degree in Dance**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses

Dance Technique

DANC 114	Conditioning and Alignment for the Dancer.....1
DANC 151	Modern Dance I.....1
DANC 153	Ballet I.....1
DANC 251	*Modern Dance II.....1
DANC 253	*Ballet II.....1

Dance Theory

DANC 159	Choreography I.....3
DANC 179 or	Dance History.....3
DANC 179H	*Dance History Honors.....3

Choose 4 units from the following category:

Dance Performance

DANC 152	Dance Rehearsal.....3
DANC 162	Dance Production.....3
DANC 172	Dance Repertory.....3
DANC 180	Performance.....1
DANC 182	Dance Ensemble.....3

Required Subtotal.....15

*Prerequisites

Choose 4 units from the following categories:

(Dance Styles, Body Conditioning, Arts Related Fields, and/or Kinesiology and Exercise Science, -no more than 3 units from any Single category)

Note: Only one experience in repeatable Dance classes can be used to meet degree requirements.

Dance Styles

DANC 150	Introduction to World Dance.....1
DANC 154	Jazz Dance I.....1
DANC 157	Hip-Hop Dance.....1
DANC 168	Latin Social Dance.....1
DANC 254	*Jazz Dance II.....1

Body Conditioning

KINA 136	Pilates I.....1
KINA 139	Cross Training for Fitness.....1
KINA 148	Strength Training.....1
KINA 158	Yoga I.....1
KINA 258	*Yoga II.....1

Arts Related Fields

DANC 199 or	Dance Appreciation.....3
DANC 199H	*Dance Appreciation Honors.....3
MUS 130	Music History and Literature before 1750.....3
MUS 131	Music History and Literature after 1750.....3
MUS 133	Music Appreciation.....3
THTR 110	Principles of Acting.....3
THTR 111	*Principles of Acting.....3
THTR 150	Stagecraft I for Theatre, TV and Film.....3
THTR 151	*Stagecraft II for Theatre, TV and Film.....3
THTR 152	*Stagecraft III for Theatre, TV and Film.....3

Kinesiology and Exercise Science

KIN 122	Nutrition for Sport and Fitness.....3
KIN 126	Principles of Strength and Conditioning.....3
KIN 127	Exercise Physiology.....3
KIN 128	Fitness Testing and Exercise Prescription.....3
KIN 131	Functional Anatomy of Movement.....3
KIN 145	Theory and Analysis of Fitness Instruction.....2
KIN 146	Training Principles for Special Populations.....2

Units Required 19

*Prerequisites

DANCE

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS DIVISION

CERTIFICATE OF ACHIEVEMENT

The Dance Certificate Program provides students with a core curriculum in contemporary dance practice and theory and prepares them for careers in dance education and dance performance. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with a solid foundation so that they may pursue a job in private studios, recreational centers, gyms, colleges, after-school programs, dance companies, television, film, and musical theater.

Courses cover a range of styles and subjects in dance, including ballet, modern, jazz, hip hop, Latin social dance, conditioning and alignment for dance, choreography, performance, dance history, and instructional theory and analysis. The intent of this program is to prepare students for dance auditions, internships, and immediate entry-level employment in the field of dance education and dance performance. All credits may be applied to the Associate in Arts degree in Dance.

To acquire the **Certificate of Achievement in Dance**, it is necessary to complete the following courses:

Required Courses		Units
DANC 114	Conditioning and Alignment for the Dancer.....	1
DANC 151	Modern Dance I.....	1
DANC 251	*Modern Dance II.....	1
DANC 153	Ballet I.....	1
DANC 253	*Ballet II.....	1
DANC 154 or	Jazz Dance I.....	1
DANC 157 or	Hip Hop Dance.....	1
DANC 167	Latin Dance for Fitness.....	1
DANC 159	Choreography I.....	3
DANC 179 or	Dance History.....	3
DANC 179H	*Dance History Honors.....	3
DANC 152 or	Dance Rehearsal and Performance.....	3
DANC 162 or	Dance Production.....	3
DANC 172 or	Dance Repertory.....	3
DANC 182	Dance Ensemble.....	3
DANC 180	Performance.....	1
KIN 145	Theory and Analysis of Fitness Instruction.....	2

Units Required 18

**Prerequisite*

DRAFTING/TECHNICAL DRAWING

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

The following Technical Drawing curriculum will lead to the Certificate of Achievement and prepare students for employment as an early entry-level technician in the field of Architecture, Civil and Engineering Design Drafting/Drawing. Students will develop skill-based training techniques and knowledge of technical industry standards that will also prepare them for advanced studies in the pursuit of more advanced certificates or degrees for transfer.

To acquire the **Certificate of Achievement in Technical Drawing**, it is necessary to complete the following courses:

Required Courses		Units
ARCH 115	Introduction to Residential Architecture: Drawing and Design.....	4
CIV 140	Civil Engineering Fundamentals.....	3
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Architectural and Technical Freehand Sketching.....	2
ENGT 122	Engineering Design Graphics.....	4
Choose one course from the following:		
ENGT 150 or	AutoCAD for Basic CADD Applications	4
ENGT 170	MicroStation for Basic CADD Applications	4
Units Required 20		

DRUG STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for an Associate of Science Degree in Drug Studies. The Drug Studies Program is accredited by the California Association of Alcohol and Drug Educators (CAADE). The courses needed for the degree are designed to serve as preparation for a career in the helping professions. These courses may also serve students who wish to further their education in Human Services or other helping professions.

To acquire the **Associate of Science Degree in Drug Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
HUSR 118 Chemical Dependency: Intervention, Treatment, and Recovery.....	3
HUSR 122 Introduction to Group Leadership and Process	3
HUSR 124 Introduction to Case Management and Documentation.....	3
HUSR 126 Counseling the Family of the Addicted Person	.3
HUSR 130 Essential Counseling Skills.....	3
HUSR 199A *Seminar in Humans Services.....	1
HUSR 199B *Fieldwork in Human Services	2-3
HUSR 230A *Drug Studies Seminar	1
HUSR 230B *Drug Studies Internship	2-3
PSY 121 Drugs, Society, and Behavior.....	3
HUSR 123 or HUSR 128 Drug Education and Prevention	3
HUSR 128 Chemical Dependency and Co-Occurring Disorders	3
PSY 127 Introduction to the Physiological Effects of Drugs of Abuse.....	3

Choose two courses from the list below:

HUSR 111 Human Services in Contemporary Society.....	3
PSY 101 or PSY101H *Introductory Psychology Honors	3
PSY 112 Lifespan Development.....	3
PSY 114 Introduction to Abnormal Psychology	3
SOC 101 or SOC 101H *Introduction to Sociology Honors	3

Units Required 36-38

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Drug Studies

The Drug Studies Certificate provides the student with the academic preparation and field experience needed to work with the drug dependent and their families. The Certificate is accredited by the California Association of Alcohol and Drug Educators (CAADE). Completion of the required courses provides the educational component necessary for certification as a Certified Addiction Treatment Specialist through CAADE. The courses that comprise the Certificate are designed for those who are working with or want to work with drug dependent populations, providing a broad base of knowledge regarding approaches to drug education and prevention, treatment issues, counseling skills, ethical issues, and practical knowledge about drugs and their effects.

To acquire the **Certificate of Achievement in Drug Studies**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
HUSR 118 Chemical Dependency: Intervention, Treatment, and Recovery.....	3
HUSR 122 Introduction to Group Leadership and Process	3
HUSR 124 Introduction to Case Management and Documentation	3
HUSR 126 Counseling the Family of the Addicted Person	3
HUSR 130 Essential Counseling Skills.....	3
HUSR 199A *Seminar in Humans Services.....	1
HUSR 199B *Fieldwork in Human Services	2-3
HUSR 230A *Drug Studies Seminar	1
HUSR 230B *Drug Studies Internship	2-3
PSY 121 Drugs, Society, and Behavior.....	3
HUSR 123 or HUSR 128 Drug Education and Prevention	3
HUSR 128 Chemical Dependency and Co-Occurring Disorders	3
PSY 127 Introduction to the Physiological Effects of Drugs of Abuse.....	3

Choose two courses from the list below:

HUSR 111 Human Services in Contemporary Society.....	3
PSY 101 or PSY 101H *Introductory Psychology Honors	3
PSY 112 Lifespan Development	3
PSY 114 Introduction to Abnormal Psychology	3
SOC 101 or SOC 101H *Introduction to Sociology Honors	3

Units Required 36-38

*Prerequisite

ECONOMICS

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Economics for Transfer

The **Associate in Arts in Economics for Transfer AA-T Degree** is intended to meet the lower division requirements for Economics majors (or similar majors) at a CSU campus that offers an economics baccalaureate degree.

An Economics education provides the student with a logical way of approaching various problems and issues and provides valuable qualitative skills. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Economics:

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA, students should consult with a counselor for more information).
3. Completion of the 20-21 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Economics major at the CSU where they seek transfer.

Required Courses		Units
ECON 101 or ECON 101H	*Principles of Macroeconomics	3
	Honors.....	3
ECON 102 or ECON 102H	*Principles of Microeconomics	3
	Honors.....	3
MATH 130 or MATH 130H	*Statistics.....	4
	Honors.....	4
MATH 170 or MATH 190 or MATH 190H	*Elements of Calculus	4
	*Calculus I	4
	*Calculus I Honors.....	4

Choose one course from the following list:

ACCT 101	Financial Accounting.....	4
ACCT 102	*Managerial Accounting	4
CIT 101	Introduction to Computer Information Technology.....	3

Choose one course from the following list: Any course not used above or:

ECON 106	Economics of Contemporary Issues	3
ECON 135 or POLS 135	International Political Economy.....	3

Required Subtotal..... 20-21

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

*Prerequisite

ELECTRIC VEHICLE AND FUEL CELL TECHNOLOGY TECHNICIAN

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Electric Vehicle and Fuel Cell Technology Technician Associate of Science Degree is designed to prepare students to meet the emerging field of service and diagnosis of vehicles powered by electricity generated by any of the following sources, plug-in electric/hybrid-powertrain/fuel cell generation. The green technology can be transferred from vehicles to stationary back-up power systems. Students will need to apply for ASE L-3 testing and pay all applicable fees to take the final ASE exam. This Degree is intended to be the capstone of the Hybrid/Electric/Fuel Cell program.

To acquire the **Associate of Science Degree in Electric Vehicle and Fuel Cell Technology Technician**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
AUTO 106 Automotive Electrical Tools & Diagnostic Procedures	3
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training	4
AUTO 260 *Advanced Hybrid/ Electric Vehicle	4
AUTO 265 *Fuel Cell Technology Fundamentals	4
ELEC 100 *D.C. and A.C. Fundamentals	3
ELEC 101 *D/C Electronic Circuits and Devices.....	4
ELEC 102 *A/C Electronic Circuits and Devices.....	4

Units Required 29

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Electric Vehicle and Fuel Cell Technology

The Electric Vehicle and Fuel Cell Technology Technician Certificate of Achievement is designed to prepare students to meet the emerging field of service and diagnosis of vehicles powered by electricity generated by any of the following sources, plug-in electric/hybrid-powertrain/fuel cell generation. The green technology can be transferred from vehicles to stationary back-up power systems. Students will need to apply for ASE L-3 testing and pay all applicable fees to take the final ASE exam. This certificate is intended to be the capstone of the Hybrid/Electric Vehicle/Fuel Cell Program.

To acquire the **Certificate of Achievement in Electric Vehicle and Fuel Cell Technology Technician**, it is necessary to complete the following courses:

Required Courses	Units
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training.....	4
AUTO 260 *Advanced Hybrid/Electric Vehicle	4
AUTO 265 *Fuel Cell Technology Fundamentals	4

Units Required 15

**Prerequisite*

ELECTRONICS TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Electronics Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ELEC 101 *D/C Electronic Circuits and Devices	4
ELEC 102 *A/C Electronic Circuits and Devices	4
ELEC 108 *Introduction to Solid State Devices & Circuits	4
ELEC 109 *Linear, Analog Circuits & Devices	4
ELEC 111 *Introduction to Digital Electronics	4
ELEC 208 *Advanced Solid State Devices & Circuits	4
ELEC 211 *Advanced Digital Electronics.....	4
ELEC 240 *Microprocessors & Microcomputing	4

Units Required 32

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Electronics Technology

To acquire the **Certificate of Achievement in Electronics Technology**, it is necessary to complete the following courses:

Required Courses	Units
ELEC 101 *D/C Electronic Circuits and Devices	4
ELEC 102 *A/C Electronic Circuits and Devices	4
ELEC 108 *Introduction to Solid State Devices & Circuits	4
ELEC 111 *Introduction to Digital Electronics	4
ELEC 211 *Advanced Digital Electronics.....	4
ELEC 240 *Microprocessors & Microcomputing	4

Units Required 24

*Prerequisite

EMERGENCY MEDICAL TECHNICIAN

DIVISION OF PUBLIC SAFETY

CERTIFICATE OF SKILL PROFICIENCY

Emergency Medical Technician

This Emergency Medical Technician program prepares the entry level EMT to safely stabilize and transport patients to a place of medical care.

To acquire a **Certificate of Skill Proficiency in Emergency Medical Technician**, it is necessary to complete the following:

Required Courses	Units
EMT 093 *Emergency Medical Technician	8

Units Required 8

**Prerequisite*

ENGINEERING

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Engineering will prepare those students interested in laying a foundation for further study and for a Bachelor's Degree in an engineering field from a four-year college or university.

The engineering program fulfills many of the requirements and foundation courses for transfer to Baccalaureate engineering-related majors, but does not satisfy all transfer requirements for specific institutions. Students should consult a counselor for major preparation for specific universities and colleges.

To acquire the **Associate of Science Degree in Engineering**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
MATH 190 or	*Calculus I	4
MATH 190H	*Calculus I Honors.....	4
MATH 191	*Calculus II.....	4
PHY 211	*Physics for Scientists & Engineers I.....	4
PHY 212	*Physics for Scientists & Engineers II.....	4
PHY 213	*Physics for Scientists & Engineers III.....	4
Required Subtotal.....		20

Choose 16 units from the list below:

BIOL 200	*Principles of Biology -1.....	5
BIOL 201	*Principles of Biology -2.....	5
CHEM 130	*General Chemistry I.....	5
CHEM 140	*General Chemistry II.....	5
CHEM 230	*Organic Chemistry I.....	5
CHEM 231	*Organic Chemistry II.....	5
CIT 125	Introduction to C++ Programming.....	4
CIT 126	*Advanced C++ Programming	4
CIV 140	Civil Drafting Fundamentals.....	3
CIV 142	Introduction to Surveying and GPS.....	4
CIV 241	*Civil Engineering Drafting and Design	3
ENGT 122	Engineering Design Graphics.....	4
ENGT 138	Engineering Careers and Applications.....	2
ENGR 217	*Electric Circuit Analysis	3
ENGR 235	*Engineering Mechanics: Statics	3
MATH 250	*Calculus III	4
MATH 260	*Linear Algebra.....	4
MATH 270	*Differential Equations.....	4

Units Required 36

**Prerequisite*

ENGINEERING DESIGN DRAFTING

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

This major curriculum leads to the Associate of Science Degree in Engineering Design Drafting for advanced Tech Prep applications, employment in design, engineering and manufacturing-related industries, public works, utilities and CADD/Drafting-related industries. Upon completion of specific General Education courses, this program also fulfills many of the requirements and foundation courses for transfer to other baccalaureate technical majors within Engineering and Industrial Technology, but is not intended to fulfill transfer requirements for a baccalaureate degree. (See transfer requirements of individual colleges and universities)

To acquire the **Associate of Science Degree in Engineering Design Drafting**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ARCH 115	Introduction to Residential Architecture: Drawing & Design4
CIV 140	Civil Drafting Fundamentals3
ENGT 101	Introduction to Technical Drawing & Graphics3
ENGT 105	Architectural & Technical Freehand Sketching2
ENGT 122	Engineering Design Graphics4
ENGT 131	*Engineering & Manufacturing Applications of Technical Drawing4
ENGT 150	AutoCAD for Basic CADD Applications4
ENGT 231	*Technical Product Design & Presentation4
ENGT 250	*Parametric Modeling 3D Applications for Mechanical Design4
ENGT 270	*Solid Works for 3D Modeling and Prototype Applications4

Units Required 36

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Engineering Design Drafting Technician

This Certificate is designed for technical, mechanical and manufacturing careers and leads to employment in CADD application, engineering-related, mechanical and manufacturing-related industries, public works, utilities and CADD/Drafting-related industries.

To acquire the **Certificate of Achievement in Engineering Design Drafting Technician**, it is necessary to complete the following courses:

Required Courses	Units
ARCH 115	Introduction to Residential Architecture: Drawing & Design 4
CIV 140	Civil Drafting Fundamentals3
ENGT 101	Introduction to Technical Drawing & Graphics3
ENGT 105	Architectural and Technical Freehand Sketching2
ENGT 122	Engineering Design Graphics4
ENGT 131	*Engineering & Manufacturing Applications of Technical Drawing4
ENGT 150	AutoCAD for Basic CADD Applications4
ENGT 231	*Technical Product Design & Presentation4

Units Required 28

**Prerequisite*

ENGLISH

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Arts in English for Transfer

The **Associate in Arts in English for Transfer (AA-T) Degree** is designed to provide foundation studies in English (or similar majors) for those interested in working toward a Bachelor's Degree in English (or similar majors) from a four-year college or university. The degree program is also relevant for those interested in developing critical thinking, interpretive reading, analytical and research writing, and presentation skills to apply to broader educational and professional goals.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in English (and similar majors):

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Students should consult with a counselor for more information.)
3. Completion of the 18.5-19.5 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the English (or similar majors) at the CSU where they seek transfer.

Required Courses	Units
ENGL 201 or *Advanced Composition and Critical Thinking	3.5
ENGL 201H *Advanced Composition and Critical Thinking Honors.....	3.5
LIT 102 or *Approaches to Literature.....	3
LIT 102H *Approaches to Literature Honors	3

List A: Choose two courses from the following list (6 units)

LIT 112A or *American Literature through 1865	3
112AH *American Literature through 1865 Honors.....	3
LIT 112B or American Literature after 1865	3
112BH *American Literature after 1865 Honors	3
LIT 144A World Literature: Antiquity through the 16th Century	3
LIT 144B World Literature: 16th Century to the Present..	3
LIT 146A or British Literature through 1785	3
LIT 146AH *British Literature through 1785 Honors.....	3

LIT 146B or British Literature after 1785	3
LIT 146BH *British Literature after 1785 Honors.....	3

List B: Choose one course from List A (above) not used or choose one course from List B (below) (3 units)

LIT 141 Introduction to Poetry.....	3
LIT 117 or Mexican Literature in Translation.....	3
LIT 117H *Mexican Literature in Translation Honors.....	3
ENGL 127 or *Language Structure and Language Use: Introduction to Linguistics.....	3
ENGL 127H *Language Structure & Language Use: Introduction to Linguistics Honors	3
ENGL 131 *Creative Writing	3

List C: Choose any course from List A or B not used above or any of the following courses (3-4 units)

ENGL 125 *Grammar and Usage	3
ENGL 126 Languages of the World.....	3
LIT 114 or Children's and Adolescent Literature.....	3
LIT 114H *Children's and Adolescent Literature Honors.....	3
LIT 130 or *Women in Literature.....	3
LIT 130H *Women in Literature Honors	3
LIT 140 or *Introduction to the Novel.....	3
LIT 140H *Introduction to the Novel Honors	3
LIT 142 or *Introduction to Shakespeare	3
LIT 142H *Introduction to Shakespeare Honors.....	3
LIT 145 or *Introduction to the Short Story	3
LIT 145H *Introduction to the Short Story Honors.....	3
LIT 147 *Cinema as Literature	3
LIT 148 Introduction to Dramatic Literature	3
LIT 149 Introduction to Chicana/Chicano Literature.....	3
LIT 299 Directed Study: Literature	3
FR 201 *French III	4
FR 202 *French IV	4
FR 299 Directed Study: French.....	4
SPAN 201 or *Spanish III.....	4
SPAN 201H *Spanish III Honors	4
SPAN 202 *Spanish IV.....	4
SPAN 299 Directed Study: Spanish.....	3
JOUR 120 Communications Reporting and Writing.....	3
SPCH 130 Oral Interpretation.....	3
HUM 110 Survey of Humanities	3
HUM 111 Survey of Humanities	3

Required Subtotal.....18.5-19.5

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

ENGLISH AND LITERATURE

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE OF ARTS DEGREE

This degree focuses on language and literature as forms of cultural expression with specific historical influences. Some of the courses focus on reading and writing about literary texts. Other courses for this major focus on genre studies and the structure of language. A third area of coursework emphasizes significant writers, literary works, and cultural movements that are most important to a particular time period. By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate English and Literature majors but does not fulfill all transfer requirements for specific baccalaureate degree programs. (See a counselor for major preparation from specific four-year institutions).

To acquire the **Associate of Arts Degree in English and Literature**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ENGL 201 or *Advanced Composition and Critical Thinking	3.5
ENGL 201H *Advanced Composition and Critical Thinking Honors	3.5
LIT 102 or *Approaches to Literature	3
LIT 102H *Approaches to Literature Honors	3
LIT 146A or *British Literature through 1785	3
LIT 146AH *British Literature through 1785 Honors	3
LIT 146B or *British Literature after 1785	3
LIT 146BH *British Literature after 1785 Honors	3

Choose three courses from the list below:

ENGL 125	*Grammar and Usage	3
ENGL 126	Languages of the World	3
ENGL 127 or	*Language Structure and Language Use: Introduction to Linguistics	3
ENGL 127H	*Language Structure and Language Use: Introduction to Linguistics Honors	3
ENGL 131	*Creative Writing	3
LIT 112A or	*American Literature through 1865	3
LIT 112AH	*American Literature through 1865 Honors	3
LIT 112B or	*American Literature after 1865	3
LIT 112BH	*American Literature after 1865 Honors	3
LIT 114 or	*Children's and Adolescent Literature	3
LIT 114H	*Children's and Adolescent Literature Honors	3
LIT 117 or	*Mexican Literature in Translation	3
LIT 117H	*Mexican Literature in Translation Honors	3
LIT 130 or	*Women and Literature	3
LIT 130H	*Women and Literature Honors	3
LIT 140 or	*Introduction to the Novel	3
LIT 140H	*Introduction to the Novel Honors	3
LIT 141	*Introduction to Poetry	3
LIT 142 or	*Introduction to Shakespeare	3
LIT 142H	*Introduction to Shakespeare Honors	3
LIT 144A	*World Literature: Antiquity through the 16th Century	3
LIT 144B	*World Literature: 16th Century to the Present	3
LIT 145 or	*Introduction to the Short Story	3
LIT 145H	*Introduction to the Short Story Honors	3
LIT 147	*Cinema as Literature	3
LIT 148	Introduction to Dramatic Literature	3
LIT 149	Introduction to Chicana/Chicano Literature	3

Units Required 21.5

*Prerequisite

ENVIRONMENTAL SCIENCE

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Environmental Science prepares students who are intending to transfer to a four-year institution in the environmental sciences. This degree provides for completion of general lower-division coursework associated with the requirements for a bachelor degree in environmental science, environmental studies, environmental and occupational health, etc. The degree is specifically designed for students intending to transfer to a CSU or UC campus and to gain entry-level employment in the environmental science field. Students completing the degree will take specific courses in chemistry, biology, physics and mathematics in addition to general education preparation such as the CSU general education plan or IGETC. (See admission requirements of individual colleges and universities and transfer requirements for specific majors).

To acquire the **Associate of Science Degree in Environmental Science**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
BIOL 120	Environmental Biology.....	3
BIOL 120L	*Environmental Biology Lab	1
BIOL 200	*Principles of Biology I (Molecular and Cellular Biology)	5
CHEM 130	*General Chemistry I.....	5
CHEM 140	*General Chemistry II.....	5
ET 290	Cooperative Work Experience/Internship	1
MATH 190 or	*Calculus I	4
MATH 190H	*Calculus I Honors.....	4
PHY 150	*General Physics I	4

Units Required 28

**Prerequisite*

ENVIRONMENTAL TECHNOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE OF SCIENCE DEGREE

Environmental Technology refers to the skills and knowledge that allows a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

The Environmental Technology Associate of Science Degree Program is a two-year program designed to prepare students to either enter the work force at the technician level or transfer into a bachelors' degree program.

To acquire the **Associate of Science Degree in Environmental Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ET 130 Health Effects of Environmental Hazardous Materials.....	3
ET 230 Safety and Emergency Response	4
ET 260 Environmental Sampling and Analysis.....	4
BIOL 120 Environmental Biology.....	3
BIOL 120L *Environmental Biology Lab	1
-and-	
GIS 120 or Introduction to Geographic Information Systems and Spatial Analysis.....	4
CIT 101 Introduction to Computer Information Technology.....	3

Units Required 18-19

*Prerequisite

Plus units from any of the following areas of specialization and/or miscellaneous electives to equal a minimum of 27

Suggested Areas of Specialization:

Waste Management	Units
ET 110 Hazardous Waste Generation/Reduction/Treatment.....	3
ET 150 Hazardous Waste Management Application	4
ET 200 Hazardous Materials Management Applications.....	4
ET 240 Solid Waste Management Applications.....	4

Land Use Planning & Environmental Restoration	Units
AET/ET 280 Green Building Design Principles.....	3
ET 160 Hazardous Waste Site Remediation Systems	3
ET 170 Groundwater Hydrology & Sampling	3
GIS 230 *Geographic Information Systems (GIS) In Environmental Technology.....	3

Water Resources	Units
ET 270 Waste Water Treatment Plant Operations I.....	3
ET 271 *Waste Water Treatment Plant Operations II.....	3
ET 272 *Advanced Waste Water Treatment.....	3
ET 273 Stormwater Management, Treatment & Controls.....	3
ET 274 Industrial Waste Water Treatment.....	3
ET 275 Water Treatment	3
ET 276 Water Distribution.....	3

Alternative & Efficient Energy Systems	Units
AET/ET 120 Introduction to Alternative Energy Technology.....	3
AET/ET 121 Photovoltaic Systems Design & Installation	3
AET/ET 122 *Advanced Photovoltaic Systems.....	3
AET/ET 123 Wind Energy Systems Design & Installation.....	3
AET/ET 124 *Advanced Wind Energy Systems.....	3
AET/ET 181 Home Energy Management & Auditing.....	3
AET/ET 182 Industrial Energy Management & Auditing.....	3
AET/ET 280 Green Building Design Principles.....	3
AUTO 141 Alternative Fuels I	3
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3

Environmental Health & Safety	Units
ET 250 Fundamentals of Safety & Health I.....	3
ET 251 Fundamentals of Safety & Health II.....	3

ENVIRONMENTAL TECHNOLOGY

Miscellaneous Electives	Units
ET 290 CWE/Internship for Environmental Technology.....	1 - 4
FTEC 107 Hazardous Materials I.....	3
FTEC 108 *Hazardous Materials II	3
ET 299 Directed Study	1

ENVIRONMENTAL TECHNOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

CERTIFICATE OF ACHIEVEMENT

Environmental Technology

Environmental Technology refers to the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment. The ET Certificate is designed to either prepare students to enter the field or upgrade working individuals with technician-level skills.

To acquire the **Certificate of Achievement in Environmental Technology**, it is necessary to complete the following courses:

Required Courses		Units
BIOL 120	Environmental Biology.....	3
BIOL 120L	*Environmental Biology Lab	1
CHEM 110	*Chemistry for Allied Health Majors	5
ENGL 101	*College Composition and Research	3.5
ET 110	Hazardous Waste Generation/ Reduction/Treatment.....	3
ET 130	Health Effects of Environmental Hazardous Materials	3
ET 150	Hazardous Waste Management Applications....	4
ET 200	Hazardous Materials Management Applications...	4
ET 230	Safety and Emergency Response	4

Units Required 30.5

*Prerequisite

Field Technician

The Environmental Technology Field Technician Certificate is designed to prepare students to enter the environmental field or to upgrade working individuals with field technician skills

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Field Technician**, it is necessary to complete the following courses:

Required Courses		Units
ET 230	Safety and Emergency Response	4
ET 260	Sampling and Analysis.....	4
ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields.....	1-2
BIOL 120	Environmental Biology.....	3
BIOL 120L	*Environmental Biology Lab	1

Units Required 13-14

*Prerequisite

ENVIRONMENTAL TECHNOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

CERTIFICATE OF ACHIEVEMENT

Health and Safety

The Environmental Technology Health and Safety Certificate is designed to prepare students to enter the environmental health and safety field or upgrade working individuals with environmental health and safety field technician skills.

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Health and Safety**, it is necessary to complete the following courses:

Required Courses	Units
ET 130	Health Effects of Environmental Hazardous Materials.....3
ET 230	Safety and Emergency Response4
ET 250	Fundamentals of Safety and Health I3
ET 251	Fundamentals of Safety and Health II.....3
ET 260	Sampling and Analysis.....4
ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields.....1-2
BIOL 120	Environmental Biology.....3
BIOL 120L	*Environmental Biology Lab1

Units Required 22-23

*Prerequisite

Waste Management

The Environmental Technology Waste Management Certificate is designed to prepare students to enter the waste management field or upgrade working individuals with waste management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with the governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Waste Management**, it is necessary to complete the following courses:

Required Courses	Units
ET 110	Hazardous Waste Generation, Reduction And Minimization3
ET 150	Hazardous Waste Management4
ET 200 or ET 240	Hazardous Materials Management.....4 Solid Waste Management.....4
ET 230	Safety and Emergency Response4
ET 260	Sampling and Analysis.....4
ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields.....1-2

BIOL 120	Environmental Biology.....3
BIOL 120L	*Environmental Biology Lab1

Units Required 24-25

*Prerequisite

Water Management

The Environmental Technology Water Management Certificate is designed to prepare students to enter the water management field or to upgrade working individuals with water management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Water Management**, it is necessary to complete the following courses:

Required Courses	Units
ET 230	Safety and Emergency Response4
ET 260	Sampling and Analysis.....4
ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields.....1-2
BIOL 120	Environmental Biology.....3
BIOL 120L	*Environmental Biology Lab1

Choose four courses from the following list:

ET 270	Waste Water Treatment Plant Operation I3
ET 271	*Waste Water Treatment Plant Operation II.....3
ET 272	*Advanced Waste Water Treatment.....3
ET 273	Stormwater Management, Treatment and Controls3
ET 274	Industrial Waste Water3
ET 275	Water Treatment3
ET 276	Water Distribution3

Units Required 25-26

*Prerequisite

FIRE ACADEMY

DIVISION OF PUBLIC SAFETY

Admission Procedures

The Fire Academy meets the State Fire College and the State Board of Fire Services' requirements for certification as Firefighter I and certification as an Emergency Medical Technician. Enrollment in the Fire Academy is open to all students. To ensure that the enrollment policy is in compliance with Section 84500 of the Education Code, the following procedure is hereby established:

1. In-service students will receive priority over pre-service students for up to 80% of the total class enrollment. Inservice students are defined as follows and will be given priority in the order listed:
 - a. fully paid members of fully paid governmental or industrial fire protection or fire prevention agencies,
 - b. sponsored Reserve/Auxiliary members of Fire Departments,
 - c. volunteers of a fire protection or fire prevention agency who have been a member of such organization for a minimum of one year and have completed a minimum of fifteen (15) units of Fire Technology in an accredited college or institution with a grade in each course of "C" or better. Explorer Scouts DO NOT qualify for in-service status.

It must be the intent of any person filing an application as an in-service member to return to the sponsoring organization upon completion of the academy training. It must be the intent of the department sponsoring such member to utilize the skills and knowledge acquired by the member in the day-to-day operation of the department.

2. Pre-service students will be given priority over in-service students for up to 20% of the total class enrollment. A pre-service person is one who does not qualify as an in-service member.
3. Priority for enrollment in the Academy will be based on the number of units completed with a grade of "C" or above in Fire Technology courses in accredited colleges or institutions. However, students who withdrew from a previous Rio Hondo firefighter academy due to a verified injury or extended sickness will be given priority over new applicants. Fire Technology courses are those having an accredited fire technology number.
4. Students with the same number of credit units in Fire Technology courses will be prioritized based on the grade point average of the Fire Technology courses.
5. In the event two or more students have an equal grade point average and have completed the same number of Fire Technology units, priority will be based on the total number of units completed in accredited colleges or institutions.
6. Students with the same number of completed Fire Technology units, the same grade point average in the Fire Technology units and the same number of total units completed in accredited colleges or institutions will be prioritized based on the grade point average of all college units completed.
7. It will be the responsibility of the student to have on file with the Regional Training Center Office the application and official transcripts verifying completed coursework results on or before the closing date for applications.
8. Registration for the Fire Academy based on priorities established will occur at least five working days prior to start of the Academy to allow time to obtain required materials.

FIRE ACADEMY/ BASIC FIRE ACADEMY

DIVISION OF PUBLIC SAFETY

CERTIFICATE OF ACHIEVEMENT

The Basic Fire Academy Certificate of Achievement is designed to prepare students to become entry-level firefighters in local and state fire agencies in California. This fundamental intensive training course includes all learning domains from the California Fire Marshal’s office, which includes instruction in structural, commercial and industrial firefighting. This certificate also meets the certification requirements of the State Fire Marshal for employment opportunities as a firefighter in California. Students who successfully complete this certificate program are eligible for hire in a public (municipal) and private fire department.

To acquire the **Certificate of Achievement in Basic Fire Academy**, it is necessary to complete the following courses:

Required Courses	Units
FAC 118 or *Firefighter I – Basic Fire Academy	18
FAC 120 *Firefighter I – Basic Fire Academy with EMT	22

Units Required 18-22

**Prerequisite*

FIRE TECHNOLOGY

DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

This curriculum was developed jointly by the Curriculum Committee of the California Fire Chiefs' Association and the College Advisory Committee and is intended for firefighters, fire officers, and interested students.

To acquire the **Associate of Science Degree in Fire Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC) requirements of the College along with the following courses:

Required Courses	Units
FTEC 101 Fire Protection Organization.....	3
FTEC 102 Principles of Fire & Emergency Services Safety & Survival.....	3
FTEC 103 Fire Behavior and Combustion.....	3
FTEC 104 Fire Prevention Technology.....	3
FTEC 105 Building Construction for Fire Protection.....	3
FTEC 106 Fire Protection Equipment & Systems.....	3
 <i>Choose 6 units from the following:</i>	
EMT 093 *Emergency Medical Technician.....	8
ET 230 Safety and Emergency Response.....	4
FAC 118 *Firefighter I Basic Fire Academy.....	18
FTEC 044 *Physical Fitness and Ability for the Firefighter.....	3
FTEC 045 Firefighter Entrance Examination Techniques.....	3
FTEC 107 Hazardous Materials I.....	3
FTEC 108 *Hazardous Materials II.....	3
FTEC 109 Fire Fighting Tactics & Strategy.....	3
FTEC 110 Rescue Practice.....	3
FTEC 111 Fire Hydraulics.....	3
FTEC 112 Fire Apparatus and Equipment.....	3
FTEC 114 Fire Investigations.....	3
FTEC 117 Fire Service Management, Safety & Wellness.....	3
FTEC 121 Emergency Response.....	3
WFT 101 Wild Land Fire Behavior.....	3

Units Required 24-36

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Fire Technology

To acquire the **Certificate of Achievement in Fire Technology**, it is necessary to complete the following courses:

Required Courses	Units
FTEC 101 Fire Protection Organization.....	3
FTEC 102 Principles of Fire & Emergency Services Safety & Survival.....	3
FTEC 103 Fire Behavior and Combustion.....	3
FTEC 104 Fire Prevention Technology.....	3
FTEC 105 Building Construction for Fire Protection.....	3
FTEC 106 Fire Protection Equipment & Systems.....	3
 <i>Choose 6 units from the following:</i>	
EMT 093 *Emergency Medical Technician.....	8
ET 230 Safety & Emergency Response.....	4
FAC 118 *Firefighter I Basic Fire Academy.....	18
FTEC 044 *Physical Fitness and Ability for the Firefighter.....	3
FTEC 045 Firefighter Entrance Examination Techniques.....	3
FTEC 107 Hazardous Materials I.....	3
FTEC 108 *Hazardous Materials II.....	3
FTEC 109 Fire Fighting Tactics & Strategy.....	3
FTEC 110 Rescue Practice.....	3
FTEC 111 Fire Hydraulics.....	3
FTEC 112 Fire Apparatus & Equipment.....	3
FTEC 114 Fire Investigations.....	3
FTEC 117 Fire Service Management, Safety & Wellness.....	3
FTEC 121 Emergency Response.....	3
WFT 101 Wild Land Fire Behavior.....	3

Units Required 24-36

*Prerequisite

GENERAL EDUCATION CERTIFICATES OF ACHIEVEMENT

DIVISION OF COUNSELING AND STUDENT SUCCESS

CSU GE CERTIFICATE OF ACHIEVEMENT

The California State University General Education Breadth (CSU GE Breadth) pattern is a set of courses designed to fulfill all lower-division general education requirements for California State University campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in CSU GE Breadth**, courses must have been approved for the CSU GE Breadth area during the term in which the course was taken (please verify approval dates on www.assist.org). A grade of "C-" or better is required for courses taken in areas A1, A2, A3, and B4.

IGETC CERTIFICATE OF ACHIEVEMENT

The Intersegmental General Education Transfer Curriculum (IGETC) is a set of courses designed to fulfill all lower-division general education requirements for California State University and University of California campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in IGETC**, it is necessary to complete the Intersegmental General Education Transfer Curriculum requirements listed in this catalog with a grade of "C" or better. Courses must have been approved for the IGETC area during the term in which the course was taken (please verify approval dates on www.assist.org).



GENERAL STUDIES

ASSOCIATE OF ARTS DEGREE

The General Studies degree with an area of emphasis is designed to give students a broad introduction to an area of knowledge represented by related disciplines and topics. This degree is intended for students who may not be intending to pursue a specific occupational major, nor are they necessarily planning to transfer. However, careful educational planning with a counselor will help to ensure that, if a student did decide at a later date to transfer to a university, they would have a foundation in the transfer planning process. Students will select an "Area of Emphasis" from the following four options based on their interests and educational goals.

General Studies with an Emphasis in Arts and Human Expression:

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This emphasis includes lower division coursework that prepares students for potential careers in fine arts, foreign languages, literature, and philosophy.

To acquire the **Associate of Arts Degree in General Studies with an Emphasis in Arts and Human Expression**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Choose at least one course from each category (A and B) and then complete additional courses in categories A and/or B to total 18 units of coursework from the following list:

A) ARTS

ART 101	Introduction to Studio Arts	3
ART 104	Art of the Ancient Americas	3
ART 105 or	Survey of Western Art: Prehistory through the Middle Ages	3
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors.....	3
ART 106 or	Survey of Western Art: Renaissance to Contemporary	3
ART106H	Survey of Western Art: Renaissance to Contemporary Honors.....	3
ART 107	The Art of Asia.....	3
ART 108	The Art of Mexico.....	3
ART 109	History of American Art	3
ART 110	Understanding Visual Art.....	3
ART 112	Visual Art in the Modern Era.....	3
ART 113	The History of Photography	3
ART 115	The Art of Film	3

ART 120	Two Dimensional Design.....	3
ART 121	Three Dimensional Design.....	3
ART 130	Freehand Drawing I	3
ART 135	Beginning Painting.....	3
ART 140	Ceramics I.....	3
DANC 179 or	Dance History	3
DANC 179H	*Dance History Honors.....	3
DANC 199 or	Dance Appreciation	3
DANC 199H	*Dance Appreciation	3
MUS 101	Fundamentals of Music	3
MUS 129	Music in Latin American Culture.....	3
MUS 130	Music History and Literature Before 1750	3
MUS 131	Music History and Literature After 1750.....	3
MUS 132	History of Rock and Roll	3
MUS 133	Music Appreciation.....	3
MUS 134	Chamber Singers	2
MUS 135	Music in Film.....	3
MUS 136	History of Jazz.....	3
MUS 141	History of Rap Music and Hip Hop Culture.....	3
PHTO 190	Beginning Photography.....	3
THTR 101	Theatre Arts Appreciation.....	3
THTR 105 or	The History and Development of the Theatre.....	3
THTR 105H	*The History and Development of the Theatre Honors	3
THTR 110	Principles of Acting.....	3
THTR 150	Stagecraft I for Theatre, TV, and Film.....	3

B) HUMAN EXPRESSION

ASL 101	American Sign Language I	4
CHIN 101	Chinese I.....	4.5
CHIN 102	*Chinese II.....	4.5
CHST 146	The Mexican American in the History of the U.S.	3
ENGL 126	Languages of the World	3
FR 101	French I.....	4.5
FR 102	*French II.....	4.5
FR 201	*French III.....	4.5
FR 202	*French IV	4.5
HIST 101	History of World Civilization to the 17th Century.....	3
HIST 102	History of World Civilization, 1500 to the Present.....	3
HIST 122	History of Mexico.....	3
HIST 131	History of the North American Indian.....	3
HIST 143 or	*History of the United States to 1877	3
HIST 143H	*History of the United States to 1877 Honors.....	3
HIST 144 or	*History of the United States Since 1865	3
HIST 144H	*History of the United States Since 1865 Honors.....	3

GENERAL STUDIES continued

HIST 156	Black American Experience to 1865.....3	POLS 128 or	Introduction to Political Philosophy3
HIST 157	Black American Experience since 1865.....3	POLS 128H	*Introduction to Political Philosophy Honors...3
HIST 158	US Comparative History of American Indians and Black Americans.....3	SPAN 101	Spanish I 4.5
HIST 159 or	US Comparative History of Mexican and Asian Americans and Women.....3	SPAN 102	*Spanish II 4.5
HIST 159H	*US Comparative History of Mexican and Asian Americans and Women Honors.....3	SPAN 101S	Spanish for Spanish Speakers I..... 4.5
HIST 167	History of California.....3	SPAN 102S	*Spanish for Spanish Speakers II..... 4.5
HIST 170	Women in American History.....3	SPAN 201 or	*Spanish III..... 4.5
HUM 110	Survey of Humanities3	SPAN 201H	*Spanish III Honors 4.5
HUM 111	Survey of Humanities3	SPAN 202	*Spanish IV 4.5
HUM 125 or	Introduction to Mexican Culture.....3	SPCH 130	Oral Interpretation.....3
HUM 125H	*Introduction to Mexican Culture Honors3	SPCH 132	Readers Theatre3
HUM 130	Contemporary Mexican-American Culture3		
JAPN 101	Japanese I..... 4.5		
JAPN 102	*Japanese II..... 4.5		
LATN 101	Latin I4		
LATN 102	*Latin II.....4		
LIT 102 or	Approaches to Literature.....3		
LIT 102H	*Approaches to Literature Honors3		
LIT 112A or	American Literature through 18653		
LIT 112AH	*American Literature through 1865 Honors.....3		
LIT 112B or	American Literature after 1865 Honors.....3		
LIT 112BH	*American Literature after 1865 Honors3		
LIT 114 or	Children's and Adolescent Literature.....3		
LIT 114H	*Children's and Adolescent Literature Honors .3		
LIT 117 or	Mexican Literature in Translation.....3		
LIT 117H	*Mexican Literature in Translation Honors.....3		
LIT 130 or	*Women and Literature.....3		
LIT 130H	*Women and Literature Honors.....3		
LIT 140 or	*Introduction to the Novel.....3		
LIT 140H	*Introduction to the Novel Honors3		
LIT 141	*Introduction to Poetry.....3		
LIT 142 or	*Introduction to Shakespeare.....3		
LIT 142H	*Introduction to Shakespeare Honors.....3		
LIT 144A	*World Literature: Antiquity through the 16th Century3		
LIT 144B	*World Literature: 16th Century to the present.....3		
LIT 145 or	*Introduction to the Short Story.....3		
LIT 145H	*Introduction to the Short Story Honors.....3		
LIT 146A or	*British Literature through 1785.....3		
LIT 146AH	*British Literature through 1785 Honors.....3		
LIT 146B or	*British Literature after 17853		
LIT 146BH	*British Literature after 1785 Honors.....3		
LIT 147	*Cinema as Literature3		
LIT 148	Introduction to Dramatic Literature3		
LIT 149	Introduction to Chicana/Chicano Literature3		
PHIL 101 or	Introduction to Philosophy.....3		
PHIL 101H	*Introduction to Philosophy Honors3		
PHIL 120	Introduction to Ethics.....3		
PHIL 124	History of Philosophy: Ancient.....3		
PHIL 126	History of Philosophy: Modern.....3		
PHIL 128 or	Introduction to Political Philosophy3		
PHIL 128H	*Introduction to Political Philosophy Honors...3		
PHIL 135	Philosophy & Contemporary Issues3		
PHIL 140	Philosophy of Religion.....3		

General Studies with an Emphasis in Social Behavior and Self-Development

These courses provide students knowledge and understanding of social behavior and self-development. This area of emphasis is designed to prepare students to use their understanding of themselves and others to communicate and collaborate more effectively. It combines knowledge of theory with attention to personal growth and purpose, as well as health and wellness. Students learn to become citizens who care for themselves and others, ready to work with people in their communities. Participation in group activities and collaborative projects is a central focus of this emphasis, allowing students to experience group interactions in a variety of contexts. This emphasis includes lower division coursework that prepares students for potential careers in people/community-oriented professions including social, health and recreational services.

To acquire the **Associate of Arts Degree in General Studies with an Emphasis in Social Behavior and Self-Development**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Choose at least one course from each category below (A and B). Then complete additional courses from categories A and B to reach a total of 18 units from the following list:

A) Theory and Knowledge			
ANTH 101 or	Introduction to Physical Anthropology.....3		
ANTH 101H	*Introduction to Physical Anthropology Honors.....3		
ANTH 102 or	Introduction to Cultural Anthropology.....3		
ANTH 102H	*Introduction to Cultural Anthropology Honors.....3		
ANTH 103	Introduction to Archaeology3		
ANTH 104	Introduction to Language and Culture3		
ANTH 110	Human Sexuality from a Cross-Cultural Perspective3		
ANTH 115	Introduction to Medical Anthropology3		
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural.....3		
CHST 101	Introduction to Chicano Studies.....3		
CHST 146	The Mexican American in the History of the U.S3		

GENERAL STUDIES

CONTINUED

CHST 148	La Chicana: The Contemporary Mexican-American Female3	PSY 200	*Research Methods in Psychology3
CHST 150	Chicano Politics3	READ 101	*Critical Reading3
CD 106	Child Growth and Development.....3	SOC 101 or	Introduction to Sociology3
CD 208	Child, Family and Community.....3	SOC 101H	*Introduction to Sociology Honors3
ECON 101 or	*Principles of Macroeconomics3	SOC 102	Major Social Problems.....3
ECON 101H	*Principles of Macroeconomics Honors3	SOC 105	Introduction to Human Sexuality.....3
ECON 102 or	*Principles of Microeconomics3	SOC 110	Human Sexuality from a Cross-Cultural Perspective.....3
ECON 102H	*Principles of Microeconomics Honors.....3	SOC 114	Marriage, Family and Intimate Relationships....3
ECON 106	Economics of Contemporary Issues3	SOC 116	Introduction to Race and Ethnic Relations3
ECON 135	International Political Economy3	SOC 120	Perspectives of Sex and Gender.....3
GEOG 102	Introduction to Cultural Geography3	SOC 127	Introduction to Criminology.....3
GEOG 103	World Regional Geography3	SOC 148	La Chicana: The Contemporary Mexican-American Female3
HIST 101	History of World Civilization to the 17th Century3	SPCH 100	Interpersonal Communications3
HIST 102	History of World Civilization, 1500 to the Present.....3	SPCH 101 or	Public Speaking.....3
HIST 122	History of Mexico.....3	SPCH 101H	*Public Speaking Honors3
HIST 131	History of the North American Indian3	SPCH 140	Argumentation and Debate3
HIST 143 or	History of the United States to 1877.....3	SPCH 150	Intercultural Communications.....3
HIST 143H	*History of the United States to 1877 Honors.....3		
HIST 144 or	History of the United States Since 1865.....3	B) Growth and Purpose/Health and Wellness	
HIST 144H	*History of the United States Since 1865 Honors.....3	ANTH 110	Human Sexuality from a Cross-Cultural Perspective3
HIST 156	Black American Experience to 1865.....3	CD 106	Child Growth and Development.....3
HIST 157	Black American Experience since 1865.....3	COUN 101	College and Life Success.....3
HIST 158	US Comparative History of American Indians and Black Americans.....3	COUN 151	Career Exploration & Life Planning.....3
HIST 159 or	US Comparative History of Mexican and Asian Americans & Women.....3	EDEV 101	College and Life Success.....3
HIST 159H	*US Comparative History of Mexican and Asian Americans & Women Honors3	HUSR 123	Drug Education and Prevention3
HIST 167	History of California3	KIN 191	Health: Personal Issues3
HIST 170	Women in American History.....3	KIN 192	Health: Women's Personal Health.....3
HUM 110	Survey of Humanities3	KIN 196	Health: Fitness and Wellness.....3
HUM 111	Survey of Humanities3	NUTR 110	Introduction to Nutrition Science3
HUM 125 or	Introduction to Mexican Culture.....3	PSY 112	Lifespan Development.....3
HUM 125H	*Introduction to Mexican Culture Honors3	PSY 121	Drugs, Society, and Behavior.....3
HUM 130	Contemporary Mexican-American Culture.....3	SOC 105	Introduction to Human Sexuality.....3
HUSR 123	Drug Education and Prevention3	SOC 110	Human Sexuality from a Cross-Cultural Perspective3
MSCM 128	Mass Media in Modern Society3		
PHIL 128 or	Introduction to Political Philosophy3		
PHIL 128H	*Introduction to Political Philosophy Honors...3		
POLS 110 or	Government of the United States.....3		
POLS 110H	*Government of the United States Honors3		
POLS 125	Law and Democracy.....3		
POLS 128 or	Introduction to Political Philosophy3		
POLS 128H	*Introduction to Political Philosophy Honors...3		
POLS 130	Comparative Government3		
POLS 135	International Political Economy3		
POLS 140	International Relations3		
POLS 150	Chicano Politics.....3		
PSY 101 or	Introductory Psychology.....3		
PSY 101H	*Introductory Psychology Honors.....3		
PSY 112	Lifespan Development.....3		
PSY 114	Introduction to Abnormal Psychology3		
PSY 121	Drugs, Society, and Behavior.....3		
HUSR 123	Drug Education and Prevention3		
PSY 170	Introduction to Learning and Memory.....3		
PSY 180	Positive Psychology.....3		

*Prerequisite

General Studies with an Emphasis in Social Sciences:

These courses emphasize the perspective, concepts, theories and methodologies of the variety of disciplines that comprise study in the social sciences. Students will study human experience in the context of the larger society. Students will study how individuals, social subgroups, and societies operate in relation to each other. This emphasis includes lower division coursework that prepares students for potential careers in the helping professions such as teaching, business, government, social work, and non-profit organizations.

To acquire the **Associate of Arts Degree in General Studies with an Emphasis in Social Sciences**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

GENERAL STUDIES

CONTINUED

Choose 18 units of coursework including two or more disciplines from the following list:

ANTH 101 or ANTH 101H	Introduction to Physical Anthropology3 *Introduction to Physical Anthropology Honors.....3	POLS 110 or POLS 110H	Government of the United States.....3 *Government of the United States Honors3
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology.....3 *Introduction to Cultural Anthropology Honors.....3	POLS 125	Law and Democracy.....3
ANTH 103	Introduction of Archaeology.....3	POLS 128 or POLS 128H	Introduction to Political Philosophy3 *Introduction to Political Philosophy Honors...3
ANTH 104	Introduction to Language and Culture3	POLS 130	Comparative Government3
ANTH 110	Human Sexuality from a Cross-Cultural Perspective.....3	POLS 135	International Political Economy3
ANTH 115	Introduction to Medical Anthropology3	POLS 140	International Relations3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural.....3	POLS 150	Chicano Politics.....3
CD 106	Child Growth and Development.....3	PSY 101 or PSY 101H	Introductory Psychology3 *Introductory Psychology Honors.....3
CD 208	Child, Family and Community.....3	PSY 112	Lifespan Development.....3
CHST 101	Introduction to Chicano Studies.....3	PSY 114	Introduction to Abnormal Psychology3
CHST 146	The Mexican American in the History of the U.S.3	PSY 170	Introduction to Learning and Memory.....3
CHST 148	La Chicana: The Contemporary Mexican-American Female3	PSY 180	Positive Psychology.....3
CHST 150	Chicano Politics.....3	PSY 200	*Research Methods in Psychology3
ECON 101 or ECON 101H	Principles of Macroeconomics3 *Principles of Macroeconomics Honors.....3	SOC 101 or SOC 101H	Introduction to Sociology3 *Introduction to Sociology Honors3
ECON 102 or ECON 102H	Principles of Microeconomics3 *Principles of Microeconomics Honors.....3	SOC 102	Major Social Problems.....3
ECON 106	Economics of Contemporary Issues.....3	SOC 105	Introduction to Human Sexuality.....3
ECON 135	International Political Economy3	SOC 110	Human Sexuality from a Cross-Cultural Perspective.....3
GEOG 102	Introduction to Cultural Geography3	SOC 114	Marriage, Family and Intimate Relationships3
GEOG 103	World Regional Geography3	SOC 116	Introduction to Race and Ethnic Relationships3
HIST 101	History of World Civilization to the 17th Century3	SOC 120	Perspectives of Sex & Gender3
HIST 102	History of World Civilization, 1500 to the Present.....3	SOC 127	Introduction to Criminology.....3
HIST 122	History of Mexico.....3	SOC 148	La Chicana: The Contemporary Mexican-American Female3
HIST 131	History of the North American Indian3	SPCH 150	Intercultural Communications.....3
HIST 143 or HIST 143H	History of the United States to 1877.....3 *History of the United States to 1877 Honors...3		
HIST 144 or HIST 144H	History of the United States Since 18653 *History of the United States Since 1865 Honors.....3		
HIST 156	Black American Experience to 1865.....3		
HIST 157	Black American Experience after 1865.....3		
HIST 158	US Comparative History of American Indians and Black Americans.....3		
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans and Women3 *US Comparative History of Mexican and Asian Americans and Women Honors.....3		
HIST 167	History of California.....3		
HIST 170	Women in American History3		
HUM 110	Survey of Humanities3		
HUM 111	Survey of Humanities3		
HUM 125 or HUM 125H	Introduction to Mexican Culture.....3 *Introduction to Mexican Culture.....3		
HUM 130	Contemporary Mexican-American Culture.....3		
MSCM 128	Mass Media in Modern Society.....3		
PHIL 128 or PHIL 128H	Introduction to Political Philosophy3 *Introduction to Political Philosophy Honors...3		

General Studies with an Emphasis in Science and Mathematics:

These courses emphasize the natural sciences, which examine the physical universe, its life forms and its natural phenomena. As mathematics is the language of science, courses in mathematics help students develop quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on human experience. This emphasis includes lower-division coursework that prepares students for potential careers in science, engineering, math, and health-related fields.

To acquire the **Associate of Science Degree in General Studies with an Emphasis in Science and Mathematics**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSUGE), or Intersegmental General Education Transfer Curriculum (IGETC).

GENERAL STUDIES continued

ASSOCIATE OF SCIENCE DEGREE

Choose at least one course from each category (A, B and C) and then complete additional courses in any category to total 18 units from the following list. Among these courses the student must complete at least one laboratory course.

A) Life Sciences

ANTH 101 or ANTH 101H	Introduction to Physical Anthropology	3
	*Introduction to Physical Anthropology Honors	3
ANTH 101L	Physical Anthropology Lab	1
BIOL 101	General Biology	4
BIOL 105	Human Biology	3
BIOL 105L	*Human Biology Laboratory	1
BIOL 111	Marine Biology	3
BIOL 111L	*Marine Biology Laboratory	1
BIOL 112	Outdoor Biology	3
BIOL 120	Environmental Biology	3
BIOL 120L	*Environmental Biology Laboratory	1
BIOL 200	*Principles of Biology 1 (Molecular and Cellular Biology)	5
BIOL 201	*Principles of Biology 2 (Diversity and Ecology)	5
BIOL 206	*Principles of Genetics	3
BIOL 222	*Microbiology	5
BIOL 226	*Human Physiology	4
PSY 210 or PSY 210H	*Biological Psychology	3
	*Biological Psychology Honors	3

B) Physical Sciences

ASTR 110 or ASTR 110H	General Astronomy	3
	*General Astronomy Honors	3
ASTR 112	*Observational Astronomy	1
CHEM 110	*Chemistry for Allied Health Majors	5
CHEM 120	*Introduction to Chemistry	5
CHEM 130	*General Chemistry I	5
CHEM 140	*General Chemistry II	5
CHEM 230	*Organic Chemistry I	5
CHEM 231	*Organic Chemistry II	5
GEOG 101	Introduction to Physical Geography	3
GEOG 101L	*Introduction to Physical Geography Laboratory	1
GEOL 150	Physical Geology	3
GEOL 151	*Physical Geology Laboratory	1
PHY 120	*Physics for Everyday Use	4
PHY 150	*General Physics-I	4
PHY 160	*General Physics-II	4
PHY 211	*Physics for Scientists and Engineers-I	4
PHY 212	*Physics for Scientists and Engineers-II	4
PHY 213	*Physics for Scientists and Engineers-III	4

C) Mathematics

MATH 130 or MATH 130H	*Statistics	4
	*Statistics Honors	4
MATH 140	*Mathematics for Elementary Teachers	4
MATH 160	*College Algebra	4
MATH 170	*Elements of Calculus	4
MATH 175	*Plane Trigonometry	3
MATH 180	*Pre-Calculus	4
MATH 190 or MATH 190H	*Calculus I	4
	*Calculus I Honors	4
MATH 191	*Calculus II	4
MATH 250	*Calculus III	4
MATH 260	*Linear Algebra	4
MATH 270	*Differential Equations	4
PSY 190	*Statistics for the Behavioral Sciences	4

*Prerequisite

GEOGRAPHIC INFORMATION SYSTEMS/APPLIED GEOGRAPHIC INFORMATION SYSTEMS

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed will lead to the Associate of Science in Applied Geographic Information Systems. The degree prepares students for either technician or analyst careers using GIS in the fields of civil engineering, biology, public safety, planning and landscape architecture, public health, social sciences, and public administration. Completion of this program is designed to prepare students to transfer into a bachelor's degree program.

To acquire the **Associate of Science Degree in Applied Geographic Information Systems**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis.....	4
GIS 220	* GIS Applications	4
GIS 221	* Cartography Design and Geographic Information Systems	4
GIS 280	* Geospatial Programming and Web Services ...	4
GIS 290	Cooperative Work Experience/Internship for GIS Related Fields.....	1-4

Choose two courses from one of the following Specialization tracks:

Civil Engineering Specialization Track

ENGT 150 or	AutoCAD for Basic CADD Applications	4
ENGT 170	MicroStation for Basic CADD Applications	4
GIS 130	*Field Data Applications for GIS	4
CIV 142	Introduction to Land Surveying and GPS	4

Environmental Specialization Track

GIS 230	* Geographic Information Systems (GIS) in Environmental Technology	3
GIS 130	*Field Data Applications for GIS	4

Data Analyst Specialization Track

GIS 281	Crime Mapping and Analysis	4
PSY 190	*Statistics for the Behavioral Sciences	4

Units Required 24-25

**Prerequisite*

GEOGRAPHIC INFORMATION SYSTEMS

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement in Geographic Information Systems (GIS) targets students interested in becoming a GIS Technician. A GIS technician utilizes standard GIS tools and utilities to enter and correct data in GIS databases such as locating addresses, georeferencing scanned maps, digitizing and collecting and processing data from the field. Most duties assigned to GIS Technicians are routine with a heavy amount of database entry and management with eventual generation of maps from data. A GIS Technician performs no data interpretation after data has been stored unless under the guidance of the analyst. Many students enrolled in GIS at Rio Hondo College have degrees in a variety of disciplines. After completing the GIS courses, these students could be labeled as the GIS Analyst within their area of discipline (Crime Analyst, Environmental Planner, etc.)

To acquire the **Geographic Information Systems Certificate of Achievement**, you must complete the following courses:

Required Courses		Units
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis.....	4
GIS 220	*GIS Applications.....	4
GIS 221	*Cartography Design and Geographic Information Systems	4
ENGT 150 or ENGT 170	AutoCAD for Basic CADD Applications	4
	MicroStation for Basic CADD Applications	4
<i>Select one of the following focus areas below:</i>		
GIS 230	*Geographic Information Systems in Environmental Technology.....	3
CIV 142	Introduction to Surveying and GPS.....	4
GIS 281	Crime Mapping and Analysis.....	4

Units Required 19 - 20

**Prerequisite*

GEOLOGY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Science in Geology for Transfer

The **Associate in Science in Geology for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Geology majors (or similar majors) at a CSU campus that offers a Geology baccalaureate degree. It will prepare students who are intending to transfer to any CSU with an introductory background in geology and the history of our earth, as well as the mathematical tools and qualitative and quantitative thinking skills necessary to understand our beautiful planet.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Geology:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 26 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Geology program at the CSU where they seek transfer.

Required Courses		Units
GEOL 150	Physical Geology.....	3
GEOL 151	*Physical Geology Laboratory	1
GEOL 152	Historical Geology.....	3
GEOL 152L	*Historical Geology Lab	1
CHEM 130	*General Chemistry I.....	5
CHEM 140	*General Chemistry II.....	5
MATH 190 or	*Calculus I	4
MATH 190H	*Calculus I Honors.....	4
MATH 191	*Calculus II.....	4

Required Subtotal.....26

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Total Units Required 60

**Prerequisite*

GRAPHIC ART AND DESIGN

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Graphic Art and Design is designed for students interested in visual arts and graphic design. This degree combines traditional visual art topics with practical graphic design skills. Students will learn to produce solutions to visual communication problems. The form of the communication can be print or digital, and include photographs, typography, illustration and other graphic forms. The work produced includes branding and identity designs, publication designs, advertising, packaging, motion graphics, websites, information architecture, and other types of communication design. Students will explore both art and design history and learn the principles and elements of design.

To acquire the **Associate of Arts Degree in Graphic Art and Design**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ART 106 or	Survey of Western Art: Renaissance to Contemporary3
ART 106H	*Survey of Western Art: Renaissance to Contemporary Honors.....3
ART 120	Two-Dimensional Design3
ART 124	Color Theory3
PHTO 185	Introduction to Digital Photography.....3
GDSN 110	History of Graphic Design3
GDSN 150	Typography3
GDSN 162	Introduction to Web Design: User Experience Design (UX).....3
GDSN 164	Digital Illustration Design.....3
GDSN 178	Digital Imaging Design.....3

Units Required 27

**Prerequisite*



GRAPHIC DESIGN

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Graphic Design prepares students for entry in graphic design and associated communication design industries and assists students seeking an undergraduate degree at a four-year institution. Courses listed in the degree provide the student with the technical and critical-thinking skills needed to produce and present visual communication solutions. This degree will enable students to build a portfolio of graphic design work in-line with industry standards and expectations including (but not limited to) branding and identity design, publication design, advertising and entertainment design, package design, website and interaction design, and other types of communication design.

NOTE: Students interested in transferring as a Graphic Design major should consult with a counselor for appropriate general education & major preparation counseling.

To acquire the **Associate of Science Degree in Graphic Design**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ART 124 Color Theory	3
GDSN 110 History of Graphic Design	3
GDSN 150 Typography	3
GDSN 162 Introduction to Web Design: User Experience Design (UX)	3
GDSN 163 *Intermediate Web Design: Interactive Design	3
GDSN 164 Digital Illustration Design	3
GDSN 165 *Branding and Identity Design	3
GDSN 172 Publication Design	3
GDSN 178 Digital Imaging Design	3
GDSN 179 *Advanced Digital Imaging Design	3

Units Required 30

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The courses required in this certificate provide the foundational skills needed to create effective Graphic Design solutions. Print and digital graphic design solutions require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the Principles and Elements of design. Research and development of both the client and audience are also essential components in creating effective graphic design solution concepts.

To acquire the **Certificate of Achievement in Graphic Design**, it is necessary to complete the following courses:

Required Courses	Units
GDSN 110 History of Graphic Design	3
GDSN 150 Typography	3
GDSN 162 Introduction to Web Design: User Experience Design (UX)	3
GDSN 164 Digital Illustration Design	3
GDSN 172 Publication Design	3
GDSN 178 Digital Imaging Design	3

Units Required 18

**Prerequisite*

GRAPHIC DESIGN

DIVISION OF ARTS & CULTURAL PROGRAMS

CERTIFICATE OF ACHIEVEMENT

ADVERTISING DESIGN

Students are taught the foundational skills needed to create effective Advertising Design solutions. Print and digital advertising require the designer to be versed in the manipulation of visual imagery, the use of typography, as well as the principles and elements of design. Research and development of both the client and audience are also essential components in creating effective advertising solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Advertising Design**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
GDSN 150 Typography	3
GDSN 164 Digital Illustration Design.....	3
GDSN 178 Digital Imaging Design.....	3
GDSN 179 *Advanced Digital Imaging.....	3

Units Required 12

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

BRANDING IDENTITY & DESIGN

Students are taught the foundational skills needed to create effective Branding & Identity Design solutions. Print and digital Branding & Identity solutions require the designer to be versed in the manipulation of visual imagery, the use of typography, as well as the principles and elements of design. Research and development of both the client and audience are also essential components in creating effective Branding & Identity solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Branding Identity**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
GDSN 150 Typography	3
GDSN 162 Introduction to Web Design: USER Experience Design (UX).....	3
GDSN 164 Digital Illustration Design.....	3
GDSN 165 *Branding & Identity Design	3

Units Required 12

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

ENTREPRENEURIAL GRAPHIC DESIGN

The curriculum in this certificate provides foundational entrepreneurial preparation for students entering a freelance graphic design career and/or starting a small graphic design business. The certificate combines the entry-level small-business management and marketing skills and intermediate/advanced graphic design skills needed to participate as an entrepreneur in the graphic design profession.

To acquire the **Certificate of Achievement in Entrepreneurial Graphic Design**, it is necessary to complete the following courses:

Required Courses	Units
MGMT 130 Small Business Management- Entrepreneurship	3
MRKT 174 Small Business Marketing and Advertising.....	3
GDSN 290 Cooperative Work Experience/Internship for Graphic Design Related Fields.....	3
GDSN 299 Directed Study in Graphic Design	3

Choose a minimum of 9 units from the following:

GDSN 110 History of Graphic Design	3
GDSN 151 *Typographic Design	3
GDSN 163 *Intermediate Web Design: Interactive Design.....	3
GDSN 165 *Branding and Identity Design.....	3
GDSN 174 *Packaging Design.....	3

Units Required 21

*Prerequisite

GRAPHIC DESIGN

DIVISION OF ARTS & CULTURAL PROGRAMS

CERTIFICATE OF ACHIEVEMENT

PACKAGING DESIGN

The courses required in this certificate provide the foundational skills needed to create effective Packaging Design solutions. Print and digital packaging require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the principles and elements of design. Research and development of both the client and audience are also essential components in creating effective packaging solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Packaging Design**, it is necessary to complete the following courses:

Required Courses	Units
GDSN 150 Typography	3
GDSN 164 Digital Illustration Design.....	3
GDSN 174 *Packaging Design.....	3
GDSN 178 Digital Imaging Design.....	3

Units Required 12

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

PUBLICATION DESIGN

Students are taught the foundational skills needed to create effective Publication Design solutions. Print and digital Publication Design solutions require the designer to be versed in the manipulation of visual imagery, the use of typography, as well as the principles and elements of design. Research and development of both the client and audience are also essential components in creating effective Publication Design solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Publication Design**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
GDSN 150 Typography	3
GDSN 151 *Typographic Design	3
GDSN 164 Digital Illustration Design.....	3
GDSN 172 Publication Design	3

Units Required 12

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

WEBSITE DESIGN

Students are taught the foundational skills needed to create effective Website Design and Digital Media solutions. Website Design and Digital Media solutions require the designer to be versed in the manipulation of visual imagery, the use of typography, as well as the principles and elements of design. Research and development of both the client and audience are also essential components in creating effective Website Design and Digital Media solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Website Design**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
GDSN 150 Typography	3
GDSN 162 Introduction to Website Design: USER Experience Design (UX).....	3
GDSN 163 *Intermediate Website Design.....	3
GDSN 178 Digital Imaging Design.....	3

Units Required 12

**Prerequisite*

HEALTH SCIENCE PREPARATION

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Health Science Preparation will provide students with all the courses necessary to pursue further education in a variety of health science programs such as nursing, dental hygiene, physical therapy, occupational therapy, medical laboratory technicians, and radiological sciences. In order to earn this Certificate of Achievement, students must complete all required courses with a grade of "C" or higher.

To acquire the **Certificate of Achievement in Health Science Preparation**, it is necessary to complete the following courses:

Required Courses	Units
BIOL 125 Human Anatomy.....	4
BIOL 222 *Microbiology	5
BIOL 226 *Human Physiology	4
CHEM 110 or *Chemistry for Allied Health Majors	5
CHEM 120 *Introduction to Chemistry	5
ENGL 101 *College Composition and Research	3.5

Units Required 21.5

**Prerequisite*

HEAT AND FROST INSULATORS

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Heat and Frost Insulators Associate of Science Degree is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the Heat and Frost Insulators industry.

Students will gain the skills and knowledge that allow a person to work in the Heat and Frost Insulation field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Associate of Science Degree in Heat and Frost Insulators**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
HEFR 040 *Insulation Industry Orientation	3
HEFR 041 *Mechanical Piping Systems	3
HEFR 042 *Boiler Insulation	3
HEFR 043 *Construction Mathematics.....	3
HEFR 044 *Mechanical Piping Insulation.....	3
HEFR 045 *Foam and Firestopping Insulation.....	3
HEFR 046 *Blueprint Reading.....	3
HEFR 047 *Prefabricated Buildings.....	3
HEFR 048 *Firestop Applications.....	3
HEFR 049 *Advanced Life Safety Firestop Applications	3
HEFR 290 *Work Experience in Heat and Frost Insulator Apprenticeship.....	8-12

Units Required 38-42

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The Heat and Frost Insulators Certificate is designed to prepare students to meet the needs of the State Indentured Apprenticeship (program/system/standards) within the State of California who are interested in careers in the Heat and Frost Insulators industry.

Students will gain the skills and knowledge that allow a person to work in the Heat and Frost Insulation field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Heat and Frost Insulators**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
HEFR 040 *Insulation Industry Orientation	3
HEFR 041 *Mechanical Piping Systems	3
HEFR 042 *Boiler Insulation	3
HEFR 043 *Construction Mathematics.....	3
HEFR 044 *Mechanical Piping Insulation	3
HEFR 045 *Foam and Firestopping Insulation.....	3
HEFR 046 *Blueprint Reading.....	3
HEFR 047 *Prefabricated Buildings.....	3
HEFR 048 *Firestop Applications	3
HEFR 049 *Advanced Life Safety Firestop Applications	3
HEFR 290 *Work Experience in Heat and Frost Insulator Apprenticeship.....	8-12

Units Required 38-42

**Prerequisite*

HEAVY EQUIPMENT TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to enter the heavy equipment field. The skills developed during class will prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

To acquire the **Associate of Science Degree in Heavy Equipment Technology**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
HET 140 *Heavy Equipment Electrical Diagnostics	4
HET 150 *Heavy Equipment Fuel Systems and Emissions.....	4
HET 160 *Heavy Equipment Diesel Engines	4
HET 200 *Heavy Equipment Hydraulic Fundamentals	4
HET 210 *Heavy Equipment Hydraulic Diagnostics.....	4
HET 220 *Heavy Equipment Powertrains I	4
HET 230 *Heavy Equipment Powertrains II.....	4
HET 240 *Heavy Equipment Heating, Ventilation, and Air Conditioning.....	4

Units Required 32

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Service Technician

The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to enter the heavy equipment field. The skills developed during class will prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

To acquire the **Heavy Equipment Service Technician Certificate**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
HET 140 *Heavy Equipment Electrical Diagnostics	4
HET 150 *Heavy Equipment Fuel Systems and Emissions.....	4
HET 160 *Heavy Equipment Diesel Engines	4
HET 200 *Heavy Equipment Hydraulic Fundamentals	4
HET 210 *Heavy Equipment Hydraulic Diagnostics..	4
HET 220 *Heavy Equipment Powertrains I.....	4
HET 230 *Heavy Equipment Powertrains II	4
HET 240 *Heavy Equipment Heating, Ventilation, and Air Conditioning.....	4

Units Required 32

**Prerequisite*

HEAVY EQUIPMENT TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Diesel Engines Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment diesel engine service technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Diesel Engines Technician**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting	4
HET 150 *Heavy Equipment Fuel Systems and Emissions	4
HET 160 *Heavy Equipment Diesel Engines	4

Units Required 12

**Prerequisite*

Heavy Equipment General Service Technician

The courses required in this Certificate of Achievement are comprised of a comprehensive list of job-related skills needed to acquire general heavy equipment skills. The skills acquired during class will prepare an individual for entry-level employment as a general heavy equipment service technician, such as a Lube or Periodic Maintenance technician or other positions within a heavy equipment repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment General Service Technician**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
HET 101 Introduction to Heavy Equipment Technology.....	4
HET 106 Heavy Equipment Electrical Fundamentals	4
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting	4
HET 290 Cooperative Work Experience/Internship for Heavy Equipment Technology Related Fields.....	1
WELD 040 Introduction to Welding Processes	2

Units Required 15

**Prerequisite*

Heavy Equipment Electronics Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will help one pass the certification license (EPA Rule 1411) for Motor Vehicle Air Conditioning Service. The certificate is designed to prepare an individual for entry-level employment as a Heavy Equipment Electrical/Electronic Systems and/or Heating, Ventilation and Air Conditioning Service/Repair technician.

To acquire the **Certificate of Achievement in Heavy Equipment Electronics Technician**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting	4
HET 140 *Heavy Equipment Electrical Diagnostics.....	4
HET 240 *Heavy Equipment Heating, Ventilation and Air Conditioning	4

Units Required 12

**Prerequisite*

Heavy Equipment Hydraulics Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment hydraulics technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Hydraulics Technician**, it is necessary to complete the following courses with a grade of “C” or better:

Required Course	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting	4
HET 200 *Heavy Equipment Hydraulic Fundamentals	4
HET 210 *Heavy Equipment Hydraulic Diagnostics.....	4

Units Required 12

**Prerequisite*

HEAVY EQUIPMENT TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Powertrains Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment powertrain systems service technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Powertrains Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
HET 107	*Heavy Equipment Operation, Performance Testing and Adjusting4
HET 220	*Heavy Equipment Powertrains I4
HET 230	*Heavy Equipment Powertrains II.....4

Units Required 12

*Prerequisite

HISTORY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER



Associate Degree
for Transfer

A Degree with a Guarantee.™

Associate in Arts in History for Transfer

The Associate in Arts in History for Transfer (AA-T) Degree is intended to meet the lower division requirements for History majors (or similar majors) at a CSU campus that offers a baccalaureate degree. The Associate in Arts in History for Transfer Degree is designed to enable students to explore a broad understanding of the social, political, cultural and economic events and forces that have shaped our nation's past, present and future. In addition to studying the history of the United States, history majors will study other civilizations and cultures gaining a broader perspective and better understanding of the contemporary world. Through a diverse curriculum, students learn to gather, synthesize, analyze and interpret historical evidence, building a strong foundation that prepares students to either transfer to a four-year college or succeed in numerous career paths, such as teaching, law, business administration, journalism and public service.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in History.

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the History major at the CSU where they seek transfer.

Required Courses		Units
HIST 101	History of World Civilization to the 17th Century.....	3
HIST 102	History of World Civilization, 1500 to the Present	3
HIST 143 or HIST 143H	History of the United States to 1877 *History of the United States to 1877 Honors....	3
HIST 144 or HIST 144H	History of the United States Since 1865 *History of the United States Since 1865 Honors.....	3

Choose one course from the following list:

HIST 131	History of the North American Indian	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans.....	3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans & Women..... *US Comparative History of Mexican and Asian Americans & Women Honors	3
HIST 170	Women in American History	3
HIST 122	History of Mexico.....	3

Choose one course from the following list:

HIST 167	History of California	3
ECON 101 or ECON101H	*Principles of Macroeconomics *Principles of Macroeconomics Honors	3
ECON 102 or ECON102H	*Principles of Microeconomics *Principles of Microeconomics Honors.....	3
GEOG 102	Introduction to Cultural Geography	3
PHIL 101 or PHIL 101H	Introduction to Philosophy *Introduction to Philosophy Honors	3
POLS 110 or POLS110H	Government of the United States *Government of the United States Honors	3
POLS 150/CHST150	Chicano Politics.....	3

Required Subtotal18

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

HOMELAND SECURITY

DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Homeland Security is designed to prepare students to meet the needs of entry-level positions in the Homeland Security career fields. The curriculum will prepare students with a foundation of the Homeland Security Enterprise and provide them with the knowledge to enter varied career fields that plan for and respond to the security of people, places and programs. The skills developed during class will enhance the student's ability by completing industry-recognized third-party Federal Emergency Management Agency (FEMA) certification courses as part of each class in the core program. The Homeland Security Degree program is designed for First Responders, government officials, emergency managers as well as the citizen interested in personal and community safety and security.

To acquire the **Associate of Science Degree in Homeland Security**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
HMLD 101 Introduction to Homeland Security	3
HMLD 102 Introduction to Emergency Management	3
HMLD 103 Terrorism & Violence in Society.....	3
HMLD 104 Emergency Planning & Response	3
HMLD 105 Mitigating Hazards in Emergency Management.....	3
Choose a minimum of 9 units from the following:	
AJ 101 Introduction to Administration of Justice	3
AJ 102 Criminal Procedures.....	3
AJ 104 Legal Aspects of Evidence.....	3
AJ 105 Community Relations/Multi-Cultural Issues within Public Service	3
AJ 106 *Criminal Law	3
AJ 107 *Criminal Law II	3
GIS 281 Crime Mapping and Analysis	4

OR

FTEC 101 Fire Protection Organization.....	3
FTEC 102 Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103 Fire Behavior and Combustion	3
FTEC 104 Fire Prevention Technology.....	3
FTEC 105 Building Construction for Fire Protection	3
FTEC 106 Fire Protection Equipment and Systems.....	3
WFT 101 Wildland Fire Behavior	3
WFT 102 Wildland Fire Fighter Safety and Survival.....	3
WFT 103 Wildland Fire Operations (Ground/Air)	3
WFT 104 Wildland Fire Investigation, Prevention and Public Information.....	3
WFT 105 Wildland Fire Logistics, Finance and Planning	3

Units Required 24-25

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Homeland Security is designed to prepare students to meet the needs of entry-level positions in the Homeland Security career fields. The curriculum will prepare students with a foundation of the Homeland Security Enterprise and provide them with the knowledge to enter varied career fields that plan for and respond to the security of people, places and programs. The skills developed during class will enhance the student's ability by completing industry-recognized third-party Federal Emergency Management Agency (FEMA) certification courses as part of each class in the core program. The Homeland Security program is designed for First Responders, government officials, emergency managers as well as the citizen interested in personal and community safety and security.

To acquire the **Certificate of Achievement in Homeland Security**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
HMLD 101 Introduction to Homeland Security	3
HMLD 102 Introduction to Emergency Management	3
HMLD 103 Terrorism & Violence in Society.....	3
HMLD 104 Emergency Planning & Response	3
HMLD 105 Mitigating Hazards in Emergency Management.....	3

Choose one course from the following:

AJ 101 Introduction to Administration of Justice.....	3
FTEC 101 Fire Protection Organization.....	3
WFT 101 Wildland Fire Behavior	3
GIS 281 Crime Mapping and Analysis	4

Units Required 18-19

**Prerequisite*

HONDA PROFESSIONAL AUTOMOTIVE CAREER TRAINING PROGRAM SPECIALIZATION (PACT)

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to enter the automotive field. The skills developed during class will enhance the student's ability to complete the (ASE) Automotive Service Excellence Certification Tests A-1 through A-8, Automotive Technician and to become a specialist for Honda/Acura vehicles. The Degree is designed to prepare an individual for transfer and/or entry-level employment as an Automotive Technician within a Honda/Acura Dealer. This is a full-time two-year accelerated training and career placement program.

To acquire the **Associate of Science Degree in Honda Professional Automotive Career Training Program Specialization**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
AUTO 045	*Honda/Acura Express Service	4
AUTO 0451	*Honda/Acura Chassis Electrical Systems.....	4
AUTO 046	Honda/Acura Automatic Transmission Systems	4
AUTO 0461	Honda/Acura Occupant Safety Systems	4
AUTO 102	Introduction to Honda/Acura Service and Repair	3
AUTO 125	*Power Train System Service and Transmission Diagnostics.....	4
AUTO 140	*Body and Chassis Electrical Systems.....	4
AUTO 150	*Engine Electrical Systems	4
AUTO 160	*Upper End Engine Rebuilding and Machining	4
AUTO 201	*Automotive Brake and Suspension Service	4
AUTO 240	*Heating and Air Conditioning.....	4

Units Required 43

*Prerequisite

HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT)

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Honda/Acura Air Conditioning and Supplemental Restraint Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-6 Electrical/Electronic Systems and A-7 Heating and Air Conditioning. Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura Dealership network as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement Honda/Acura Air Conditioning and Supplemental Restraint Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair	3
AUTO 0461 Honda/Acura Occupant Safety Systems	4
AUTO 240 *Heating and Air Conditioning.....	4
AUTO 106 or Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 290 Cooperative Work Experience/ Internship for Automotive Technology-Related Fields	3

Units Required 14

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Honda/Acura Brakes, Suspension, and Electronic Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-4 Suspension and Steering, A-5 Brakes, and A-6 Electrical/Electronic Systems. Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura Dealership network as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement Honda/Acura Brakes, Suspension, and Electronic Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair	3
AUTO 140 *Body and Chassis Electrical Systems.....	4
AUTO 201 *Automotive Brake and Suspension Service	4
AUTO 045 or *Honda/Acura Express Service	4
AUTO 290 Cooperative Work Experience/ Internship for Automotive Technology-Related Fields	4

Units Required 15

*Prerequisite

HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT)

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Honda/Acura Engine Repair and Chassis Electrical Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-1 Engine Repair, A-6 Electrical/Electronic Systems, and A-8 Engine Performance. Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura Dealership network as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement Honda/Acura Engine Repair and Chassis Electrical Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair.....	3
AUTO 0451 Honda/Acura Chassis Electrical Systems.....	4
AUTO 150 *Engine Electrical Systems	4
AUTO 160 *Upper End Engine Rebuilding and Machining.....	4

Units Required 15

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Honda/Acura Power Train and Transmission Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-2 Automatic Transmission/Transaxle, A-3 Manual Drive Train and Axles, and A-6 Electrical/Electronic Systems. Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura Dealership network as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement Honda/Acura Power Train and Transmission Systems**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair	3
AUTO 046 Honda/Acura Automatic Transmission Systems	4
AUTO 125 *Power Train System Service and Transmission Diagnostics	4
AUTO 106 or Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 290 Cooperative Work Experience/ Internship for Automotive Technology Related Fields.....	3

Units Required 14

**Prerequisite*

HOSPITALITY MANAGEMENT

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE IN SCIENCE IN HOSPITALITY MANAGEMENT FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Science in Hospitality Management for Transfer

The **Associate in Science in Hospitality Management for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Hospitality majors (or similar majors) at a CSU campus that offers a Hospitality Management baccalaureate degree. This degree is designed for students interested in gaining the basic concepts of Hospitality Management and to prepare them for jobs with local and global hotels, restaurants, airlines, cruise lines, sports arenas, entertainment, and amusement parks. On completion, students are ready to transfer seamlessly into Hospitality Management and related degree programs at a CSU.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Hospitality Management:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18-19 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Hospitality major at the CSU where they seek transfer.

Required Courses (3 units)		Units
HOSP 101	Introduction to the Hospitality Industry.....	3

List A

Choose 9 units or 3 courses from the following list:

ECON 102 or ECON 102H	*Principles of Microeconomics	3
	Honors.....	3
HOSP 102	Introduction to Hotel Operations.....	3
HOSP 103	Sanitation and Safety.....	3
HOSP 104	Introduction to Food and Beverage Management	3
HOSP 201	Hospitality Law.....	3

List B

Choose 6 units or 2 courses from the following list:

ACCT 101 or ACCT 101H	Financial Accounting.....	4
	*Financial Accounting Honors.....	4
ECON 101 or ECON 101H	*Principles of Macroeconomics	3
	*Principles of Macroeconomics Honors	3

Required Subtotal 18-19

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Total Units Required 60

**Prerequisite*

HUMAN SERVICES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

CERTIFICATE OF SKILL PROFICIENCY

The required courses for the Human Services Certificate provide applied, theoretical and practical knowledge to students interested in the helping professions. In addition, the student develops the skills needed for employment in the human services field, such as the ability to manage and document client cases, lead groups, and make referrals. A required component of this Certificate is a field work class which provides the student with experience and exposure to work in the human services field.

The **Human Services Certificate** is designed to provide the student with the academic background and work experience that would make them competitive for entry-level positions in human services agencies and organizations.

Required Courses		Units
HUSR 111	Human Services in Contemporary Society.....	3
HUSR 122	Introduction to Group Leadership and Process	3
HUSR 124	Introduction to Case Management and Documentation.....	3
HUSR 199A	*Seminar in Human Services.....	1
HUSR 199B	*Fieldwork in Human Services.....	2-3
SOC 102	Major Social Problems.....	3

Units Required 15-16

**Prerequisite*

INTERNATIONAL BUSINESS

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The Degree in International Business Management is designed for students who wish to pursue a career in business and desire to work with businesses in other countries. The program is also for students already employed in the international business field who wish to improve their international management and organizational skills. The program also prepares students for management positions in international business.

To acquire the **Associate of Science Degree in International Business Management**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting.....4
	*Financial Accounting Honors.....4
BUSL 110	Legal Environment of Business.....3
LOG 101	Supply Chain Management.....3
MGMT 108	Business Writing.....3
MGMT 140	Introduction to International Business.....3
MGMT 141	International Marketing.....3
MGMT 142	International Management.....3
MGMT 143	Import and Export Business.....3
MGMT 144	International Banking & Finance.....3

Units Required 28

CERTIFICATE OF ACHIEVEMENT

International Business

This Certificate of Achievement is designed for those students who wish to pursue a career in international business. This program is also for those students already employed in the international field who wish to improve on their international management and organizational skills which can lead to a management position in international business.

To acquire the **Certificate of Achievement in International Business**, it is necessary to complete the following courses:

Required Courses	Units
MGMT 140	Introduction to International Business.....3
MGMT 141	International Marketing.....3
MGMT 142	International Management.....3
MGMT 143	Import & Export Business.....3
MGMT 144	International Banking & Finance.....3

Choose a minimum of 3 units from the following:

MGMT 108	Business Writing.....3
MGMT 208	*Business Communication.....3
BUSL 110	Legal Environment of Business.....3

Units Required 18

*Prerequisite

JOURNALISM

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN JOURNALISM FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Journalism for Transfer

The **Associate in Arts in Journalism for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Journalism majors (or similar majors) at a CSU campus that offers a Journalism baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Journalism and for students looking to further their education in the field of Journalism to best be prepared to enter the job market. Students will demonstrate a wide breadth and depth of understanding of mass media theories, methods and concepts. The degree is intended for students who are interested in Journalism and are planning on transferring to a California State University and majoring in Journalism or Mass Communications. Other similar Mass Communication concentrations are Broadcast Journalism, Entertainment Studies, Photo Communications and Public Relations.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Journalism:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 19-21.5 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Journalism major at the CSU where they seek transfer.

Required Courses		Units
MSCM 128	Mass Media In Modern Society.....	3
JOUR 120	Communications Reporting and Writing.....	3
JOUR 241 or JOUR 242	*Newspaper Production I	4
	*Digital Newspaper I.....	4

LIST A: Select one (3-4 units)

JOUR 110	Digital Photojournalism I	3
JOUR 243 or JOUR 244	*Newspaper Production II	4
	*Digital Newspaper Production II	4

LIST B: Select two (6-8 units)

GDSN 172	Publication Design	3
ECON 101 or ECON 101H	*Principles of Macroeconomics	3
	*Principles of Macroeconomics Honors	3
ENGL 201 or ENGL 201H	*Advanced Composition	3.5
	*Advanced Composition Honors.....	3.5
JOUR 147	Broadcast News.....	3
MATH 130 or MATH 130H or PSY 190	*Statistics.....	4
	*Statistics Honors.....	4
	*Statistics for the Behavioral Sciences	4
PHIL 112 or PHIL 112H	Introduction to Logic.....	3
	*Introduction to Logic Honors	3
PHTO 190	Beginning Photography.....	3
POLS 110 or POLS 110H	Government of the United States.....	3
	*Government of the United States Honors	3
POLS 130	Comparative Government	3
SPCH 140 or SPCH 240	Argumentation and Debate	3
	*Argumentation and Discussion.....	3

If not chosen above, the following courses may be used to satisfy the List B requirement:

JOUR 110	Digital Photojournalism I	3
JOUR 243 or JOUR 244	*Newspaper Production II	4
	*Digital Newspaper Production II	4

Required Subtotal.....19-21.5

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Kinesiology for Transfer

The **Associate in Arts in Kinesiology for Transfer** is designed to provide students preparing to transfer with the foundation to complete a Bachelor's Degree in Kinesiology. Students will be able to pursue careers in teaching, coaching, physical therapy, athletic training, and adaptive physical education.

The Associate in Arts in Kinesiology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Kinesiology majors (or similar majors) at a CSU campus that offers a Kinesiology baccalaureate degree.

This degree is designed for the transfer-oriented student who seeks to explore Kinesiology in preparation for a Bachelor's degree. Students will gain information and experience in areas that will prepare them for a job or a career in the field of teaching, youth or professional sports, coaching, fitness and health industry, physical therapy, athletic training, sports management, and lifesaving skills in First Aid and C.P.R. The degree will provide students the opportunity to pursue work in: youth sports and summer camps, in the fitness industry, assisting physical education professionals and creating new business opportunities in the area of physical activity and sports.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Associate in Arts in Kinesiology for Transfer:

1. Completion of 60 CSU-transferable units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 21-23 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Kinesiology major at the CSU where they seek transfer.

Required Courses		Units
BIOL 125	Human Anatomy.....	4
BIOL 226	*Human Physiology.....	4
KIN 194	Introduction to Kinesiology.....	3

Movement Based Courses - Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three (3) units:

AQUATICS

KINA 117	Swimming I.....	1
KINA 217	Swimming II.....	1

COMBATIVE

KINA 124	Self-Defense.....	1
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DANCE

DANC 150	Introduction to World Dance.....	1
DANC 151	Modern Dance I.....	1
DANC 153	Ballet I.....	1
DANC 154	Jazz Dance I.....	1
DANC 157	Hip-Hop Dance.....	1
DANC 168	Latin Social Dance.....	1
DANC 251	Modern Dance II.....	1
DANC 253	Ballet II.....	1
DANC 254	Jazz Dance II.....	1

FITNESS

DANC 114	Conditioning and Alignment for the Dancer.....	1
KINA 120	Swim for Fitness.....	1
KINA 130	Lifelong Fitness Laboratory.....	1
KINA 132	Aqua Aerobics.....	1
KINA 134	Cardio Boot Camp.....	1
KINA 136	Pilates Mat I.....	1
KINA 139	Cross Training for Fitness.....	1
KINA 140	Walking for Fitness.....	1
KINA 148	Strength Training.....	1
KINA 158	Yoga.....	1
KINA 230	Lifelong Fitness Center II: Cardiovascular Fitness.....	1
KINA 258	Yoga II.....	1

INDIVIDUAL SPORTS

KINA 101	Tennis I.....	1
KINA 107	Badminton I.....	1
KINA 113	Golf I.....	1

TEAM SPORTS

KINA 103	Softball I.....	1
KINA 104	Volleyball I.....	1
KINA 105	Basketball I.....	1
KINA 109	Soccer I.....	1
KINA 110	Futsal (Indoor Soccer).....	1
KINA 133	Wrestling I.....	1
KINA 201	Tennis II.....	1
KINA 204	Volleyball II.....	1

Continued on Next Page

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER - CONTINUED

KINA205	Basketball II.....	1
KINA207	Badminton II.....	1
KINA 209	Soccer II.....	1
KINA 213	Golf II.....	1

Choose 2 courses from the following:

MATH 130 or	*Statistics.....	4
MATH 130H or	*Statistics Honors.....	4
PSY 190	*Statistics for the Behavioral Sciences	4
CHEM 130	*General Chemistry I.....	5
PHY 150 or	*General Physics I	4
PHY 211	*Physics for Scientists and Engineers I.....	4
KIN 193	Standard First Aid and C.P.R	3

Required Subtotal..... 21-23

CSU GE or IGETC Pattern Varies

Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

KINESIOLOGY/SPORTS MEDICINE

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree is designed to give students interested in a career in sports medicine, athletic training or physical therapy an opportunity to develop, practice and implement fundamental skills in the prevention, treatment and rehabilitation of various athletic/orthopedic injuries and related medical conditions. Using a combination of dynamic classroom learning and clinical experience, this program will set a foundation that will aid in the pursuit of a multitude of allied healthcare professions. Completion of this degree will also prepare students for further study or to obtain employment as an entry-level rehabilitation/allied health paraprofessional. Earning this degree may facilitate the student's transfer to a CSU and/or professional program. Students must attain a grade of "C" or higher in each course for successful completion of the degree.

To acquire the **Associate of Science Degree in Kinesiology/Sports Medicine**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
KIN 197	Prevention and Treatment of Athletic Injuries.....	3
KIN 297	*Advanced Athletic Training.....	3
KIN 290	*CWE/Internship for Athletic Training Related Fields	4
KIN 193	Standard First Aid and CPR	3
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
PSY 101	Introductory Psychology	3
BIOL 125	Human Anatomy.....	4
BIOL 226	*Human Physiology	4

Degree Total/Units Required 30

**Prerequisite*

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CERTIFICATE OF ACHIEVEMENT

Coaching of Sports

The **Coaching of Sports Certificate of Achievement** is designed to prepare students for employment as a coach in the sporting/athletic career field. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical to pursue a job as a coach. Students will be prepared to take the mandatory C.I.F. test for employment. Courses in nutrition, strength and conditioning, first aid or athletic training will prepare the student for responsibilities in the field of coaching. The intent of this program is to prepare students in field of physical activity so they may pursue a career in coaching. The classes offered will help student as they continue to pursue this career path. The program will prepare students for immediate entry-level employment in the field of coaching.

Required Courses:	Units
KIN 122 Nutrition for Sport and Fitness	3
KIN 126 Principles of Strength and Conditioning	3
KIN 159 Leadership Empowerment of Sports	3
KIN 188 Theory and Practice of Coaching	3
KIN 195 Social Issues/Media in Sport	3
KIN 193 or Standard First Aid and CPR	3
KIN 197 Prevention and Treatment of Athletic Injuries.....	3

Units Required 18

Community Health Worker

The **Community Health Worker Certificate of Achievement** is designed to prepare students for employment as a health professional in the medical, education, and health and wellness career field. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical to pursue a job promoting community health and education. Courses in nutrition, special populations, psychology/sociology, first aid, and lifelong physical activity will prepare the student for responsibilities in the field of health. The program will also expose students to other areas such as health education, healthcare services, gerontology, wellness promotion, pre-allied health, nutritional science, counseling/social advocacy services, public health, and medical fields.

To acquire the **Certificate of Achievement in Community Health Worker**, it is necessary to complete the following courses:

Required Courses	Units
KIN 122 Nutrition for Sport and Fitness	3
KIN 146 Training Principles for Special Populations	2
KIN 193 Standard First Aid and CPR	3
KIN 197 Prevention and Treatment of Athletic Injuries.....	3
KIN 191 or Health: Personal Issues	3
KIN 192 or Health: Women's Personal Health.....	3
KIN 196 Health: Fitness and Wellness.....	3
PSY 180 or Positive Psychology	3
SOC 102 Major Social Problems.....	3
CWEG 290 Cooperative Work Experience - General Education	1

Choose two courses from the list below:

KINA 120 Swim for Fitness	1
KINA 130 Lifelong Fitness Laboratory	1
KINA 132 Aqua Aerobics.....	1
KINA 136 Pilates Mat I.....	1
KINA 139 Cross Training for Fitness.....	1
KINA 140 Walking for Fitness	1
KINA 158 Yoga I	1

Units Required 20

**Prerequisite*

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CERTIFICATE OF ACHIEVEMENT

Fitness Specialist

The Fitness Specialist Certificate Program is designed to prepare students for employment as fitness instructors and a career in the rapidly expanding health and fitness industry. Students will gain academic knowledge and fitness skills through the required coursework, as well as develop the skills necessary to apply this knowledge in a vocational setting. The certificate is designed to be completed in one calendar year for students who attend full-time and may lead to immediate employment opportunities. The curriculum has been designed to equip the student with the scientific background, both theoretical and practical, to successfully customize fitness programs that include education and guidance on nutrition, weight control, flexibility, core strength, cardiovascular exercise and resistance training. Students will also be prepared to pass national certification exams in health, fitness, strength and conditioning. The program will prepare students for transfer to a university in order to pursue a higher degree in various areas of study.

To acquire the **Certificate of Achievement in Fitness Specialist**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units
KIN 115 *Fitness Specialist Internship.....	2
KIN 122 Nutrition for Sport and Fitness	3
KIN 126 Principles of Strength and Conditioning	3
KIN 127 Exercise Physiology.....	3
KIN 128 Fitness Testing and Exercise Prescription.....	3
KIN 131 Functional Anatomy of Movement	3
KIN 145 Theory and Analysis of Fitness Instruction.....	2
KIN 146 Training Principles for Special Populations.....	2

Choose two courses from the list below:

KINA 130 Lifelong Fitness Laboratory	1
KINA 134 Cardio Boot Camp	1
KINA 136 Pilates Mat I.....	1
KINA 158 Yoga I	1
KINA 230 *Lifelong Fitness Center II Cardiovascular Fitness	1
KINA 258 *Yoga II.....	1
DANC 114 Conditioning and Alignment for the Dancer.....	1
DANC 167 Latin Dance for Fitness.....	1

Units Required 23

*Prerequisite

Strength and Performance Coach

The **Strength and Performance Coach Certificate of Achievement** is designed to prepare students for employment as a professional to enhance the performance of sport and tactical (police, fire, military) athletes. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue a job promoting the physical conditioning of athletes. Strength and conditioning coaches also assist with the injury prevention and proper mechanics of athletes within their specific sport.

Courses in nutrition, exercise physiology, exercise testing and prescription, first aid, strength and conditioning biomechanics/anatomy, and injury prevention will prepare the student for responsibilities in the field of strength and conditioning. The program will also expose students to other areas such as fitness, health promotion, coaching, pre-allied health, and medical fields.

To acquire the **Certificate of Achievement in Strength and Performance Coach**, it is necessary to complete the following courses:

Required Courses:	Units
KIN 122 Nutrition for Sport and Fitness	3
KIN 126 Principles of Strength and Conditioning	3
KIN 127 Exercise Physiology.....	3
KIN 128 Fitness Testing and Exercise Prescription	3
KIN 188 or KIN 159 Theory and Practice of Coaching	3
KIN 193 or KIN 197 Leadership Empowerment of Sport.....	3
Standard First Aid and C.P.R.	3
Prevention and Treatment of Athletic Injuries.....	3
KIN 226 *Advanced Training Principles for Sport and Tactical Athletes	3
KIN 290 *Cooperative Work Experience/Internship for Athletic Training.....	1

Units Required 22

*Prerequisite

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CERTIFICATE OF ACHIEVEMENT

Yoga Teacher Training Certification

The Yoga Teacher Training Certificate Program prepares students for employment as a certified yoga instructor to lead both group classes and private individual sessions. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue a job in gyms, recreational centers, colleges, after school programs, and private studios. Courses include yoga laboratories, anatomy, movement analysis, instructional theory, foundational and methodological aspects of yoga, asanas (poses), sequencing, delivery, body alignment, philosophy, and working with people who have special medical needs or injuries. Yoga instructors also implement a mind-body-spirit connection, providing a supportive and nurturing environment while being mindful of individualized needs to engage the physical, mental, and spiritual bodies. The program will enable students to become Yoga Alliance certified at the 200-hour level.

To acquire the **Certificate of Achievement in Yoga Teacher Training Certification**, it is necessary to complete the following courses:

Required Courses	Units
KIN 145	Theory and Analysis of Fitness Instruction2
KIN 146	Training Principles for Special Populations2
KIN 058	*Yoga Teacher Training I: Foundations.....3
KIN 059	*Yoga Teacher Training II: Methodologies3
KINA 158	Yoga I1
KINA 258	*Yoga II1

Units Required 12

**Prerequisite*

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CAREER CERTIFICATE

Athletic Trainer's Aide

The **Athletic Trainer's Aide Certificate** is designed to develop, practice and implement basic skills in the prevention, treatment and rehabilitation of athletic injuries. These courses will set a foundation that will aid in the pursuit of a career in the sports medicine and health care industries. This program will better prepare students for transfer into an accredited athletic training education program at the four- year university level or increase the breadth of education for those seeking a career in other allied healthcare fields. The student must attain a grade of "C" or higher in each course for completion.

Required Courses		Units
KIN 290	*Internship for Athletic Training.....	4
KIN 193	Standard First Aid and CPR	3
KIN 194	Introduction to Kinesiology.....	3
KIN 197	Prevention and Treatment of Athletic Injuries.....	3
KIN 297	*Advanced Athletic Training.....	3

Units Required 16

**Prerequisite*

LOGISTICS MANAGEMENT

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This program is designed to prepare students for employment as logistics planners, transportation analysts, inventory planners, and purchasing analysts. The program will allow the student to develop organizational skills which can lead to advancement in operations management, transportation, purchasing, materials management, and related areas. The sequence of courses will provide the student the opportunity to acquire the knowledge and skills demanded of the modern logistics specialist. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Associate of Science Degree in Logistics Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
BUSL 110 Legal Environment of Business.....	3
LOG 101 Supply Chain Management.....	3
LOG 105 Purchasing Management.....	3
LOG 110 Warehouse Management	3
LOG 115 Inventory Management.....	3
MGMT 101 Introduction to Business	3
CIT 101 or Introduction to Computer Information Technology.....	3
LOG 130 Computerized Logistics.....	3

Choose one of the following classes:

ACCT 100 or Introduction to Accounting.....	3
ACCT 101 or Financial Accounting.....	4
ACCT 101H *Financial Accounting Honors.....	4

Required Subtotal..... 24 or 25

In addition to the Required Courses, students will choose from one of the following specializations or select one course from each specialization.

Transportation Specialization Courses:	Units
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis.....	4
LOG 120 Transportation Management.....	3
LOG 125 Contract Management.....	2
TOTAL UNITS	33 or 34

International Trade Specialization Courses:	Units
MGMT 140 Introduction to International Business.....	3
MGMT 142 International Management	3
MGMT 143 Import and Export Business	3
TOTAL UNITS	33 or 34

Operations Management Specialization	Units
LOG 135 Quality Management Concepts.....	3
MGMT 150 Principles of Management	3
MGMT 155 Principles of Leadership	3
TOTAL UNITS	33 or 34

Selecting one course from each specialization:

TOTAL UNITS 32-35

CERTIFICATE OF ACHIEVEMENT

This certificate is designed to prepare students for entry-level employment in logistics, transportation, inventory management, and purchasing. The certificate will allow the student to develop organizational skills which can lead to advancement in operations management, transportation, purchasing, materials management, and related areas. The sequence of courses will provide the student the opportunity to acquire the knowledge and skills demanded of the modern logistics specialist. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Certificate of Achievement in Logistics Management**, it is necessary to complete the following courses:

Required Courses	Units
LOG 101 Supply Chain Management.....	3
LOG 105 Purchasing Management.....	3
LOG 110 Warehouse Management	3
LOG 115 Inventory Management.....	3

Choose two of the following courses:

LOG 120 Transportation Management.....	3
LOG 125 Contract Management.....	2
MGMT 101 Introduction to Business	3
MGMT 140 Introduction to International Business.....	3
MGMT 142 International Management	3
MGMT 143 Import & Export Business.....	3
MGMT 150 Principles of Management	3

Units Required 17-18

MASS COMMUNICATIONS/MASS MEDIA

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Mass Communications: Mass Media**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
ART 115 Art of Film	3
JOUR 110 Digital Photojournalism I	3
JOUR 120 Communications Reporting & Writing	3
JOUR 147 Broadcast News.....	3
LIT 147 *Cinema as Literature	3
MSCM 103 Survey of Motion Picture, Radio and Television	3
MSCM 128 Mass Media in Modern Society	3
MSCM 134 Documentary Film	3
RDIO 104 Introduction to Broadcasting	3
TV 135 Creative Digital Video	3
JOUR 290 or *CWE/Internship for Journalism Related Fields.....	1
RDIO 290 *CWE/Internship for Radio Related Fields.....	1

Units Required 31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Mass Media

The Mass Communications:Mass Media Certificate is designed to provide a general technical background which will enable the student to make intelligent and realistic career decisions in mass communications; to provide a broad background which will afford the currently employed student an opportunity for upward mobility or career advancement; to provide a program to meet both the entry-level and skill upgrading needs of the local mass communications industry.

To acquire the **Certificate of Achievement in Mass Communications: Mass Media**, it is necessary to complete the following courses:

Required Courses	Units
ART 115 Art of Film	3
JOUR 110 Digital Photojournalism I	3
JOUR 120 *Communications Reporting & Writing.....	3
JOUR 147 Broadcast News.....	3
LIT 147 *Cinema as Literature	3
MSCM 103 Survey of Motion Picture, Radio and Television	3
MSCM 128 Mass Media in Modern Society.....	3
MSCM 134 Documentary Film	3
RDIO 104 Introduction to Broadcasting	3
TV 135 Creative Digital Video	3
JOUR 290 or *CWE/Internship for Journalism Related Fields.....	1
RDIO 290 *CWE/Internship for Radio Related Fields.....	1

Units Required 31

**Prerequisite*

MASS COMMUNICATIONS/ PRINT MEDIA SPECIALIZATION

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Mass Communications: Print Media Specialization**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
JOUR 110 Digital Photojournalism I	3
JOUR 120 Communications Reporting & Writing	3
JOUR 147 Broadcast News.....	3
JOUR 220 *Advanced Reporting & Writing	3
JOUR 230 *Magazine Production.....	3
JOUR 231 Digital Magazine Production.....	3
JOUR 241 *Newspaper Production I.....	4
JOUR 242 *Digital Newspaper Production I.....	4
JOUR 243 *Newspaper Production II	4
JOUR 244 *Digital Newspaper Production II	4
MSCM 128 Mass Media in Modern Society.....	3
JOUR 290 or *CWE/Internship for Journalism Related Fields.....	1
RDIO 290 *CWE/Internship for Radio Related Fields.....	1

Units Required 38

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Print Media Specialization

The Mass Communications: Print Media Specialization Certificate is designed to provide a general technical background which will enable the student to make intelligent and realistic career decisions in mass communications; to provide a broad background which will afford the currently employed student an opportunity for upward mobility or career advancement; to provide a program to meet both the entry-level and skill upgrading needs of the local mass communications industry.

To acquire the **Certificate of Achievement in Mass Communications: Print Media Specialization**, it is necessary to complete the following courses:

Required Courses	Units
JOUR 110 Digital Photojournalism I	3
JOUR 120 Communications Reporting & Writing	3
JOUR 147 Broadcast News.....	3
JOUR 220 *Advanced Reporting & Writing	3
JOUR 230 *Magazine Production.....	3
JOUR 231 Digital Magazine Production.....	3
JOUR 241 *Newspaper Production I	4
JOUR 242 *Digital Newspaper Production I.....	4
JOUR 243 *Newspaper Production II	4
JOUR 244 *Digital Newspaper Production II	4
MSCM 128 Mass Media in Modern Society.....	3
JOUR 290 or *CWE/Internship for Journalism Related Fields.....	1
RDIO 290 *CWE/Internship for Radio Related Fields.....	1

Units Required 38

**Prerequisite*

MATHEMATICS

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Science in Mathematics for Transfer

The **Associate in Science in Mathematics for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Mathematics majors at a CSU campus that offers a Mathematics baccalaureate degree.

Mathematics is the language of the physical and technical sciences. As such, this Degree also satisfies the lower division requirements for a variety of baccalaureate degrees including Engineering, Physics, Computer Science and Chemistry.

In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Science in Mathematics for Transfer:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information).
3. Completion of the 20 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Mathematics major at the CSU where they seek transfer.

Required Courses		Units
MATH 190 or	*Calculus I	4
MATH 190H	*Calculus I Honors.....	4
MATH 191	*Calculus II.....	4
MATH 250	*Calculus III	4

Students must also choose 2 courses from the following list:

MATH 260	*Linear Algebra.....	4
MATH 270	*Differential Equations.....	4

or replace MATH 260 or MATH 270 with one course below:

MATH 130 or	*Statistics.....	4
MATH 130H	*Statistics Honors.....	4
PHY 211	*Physics for Scientists and Engineers I.....	4

Required Subtotal.....20

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

MUSIC

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Music is a two-year program designed to prepare students for the continued study of music and/or future professional employment in the field of music. Students entering the program with the intent to perform and/or compose will gain valuable experience and performance skills performing in, and composing for our various choirs and our unique multi-instrument ensembles. The various levels of study in vocal, instrumental, theory, musicianship, keyboard skills, music technology, and composition will supply students with the necessary abilities to excel in those areas when they complete the music program at Rio Hondo College.

To acquire the **Associate of Arts Degree in Music**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
MUST 101	Introduction to Music Technology.....	3
MUS 103	Music Theory I.....	3
MUS 104	*Music Theory II.....	3
MUS 105	*Music Theory III.....	3
MUS 206	*Music Theory IV.....	3
MUS 106	Musicianship I.....	1
MUS 107	*Musicianship II.....	1
MUS 156	*Musicianship III.....	1
MUS 157	*Musicianship IV.....	1
MUS 145	Piano I.....	1
MUS 146	*Piano II.....	1
MUS 147	*Piano III.....	1

Choose 1 course from the following:
Each of the following is a 2 unit course that must be taken 4 times:

MUS 216	*Industrial Orchestra.....	8
	(Must be taken 4 times)	
MUS 134	Chamber Singers.....	8
	(Must be taken 4 times)	
MUS 234	*Advanced Chamber Singers.....	8
	(Must be taken 4 times)	

Units Required 30
**Prerequisite*

The Music Department also recommends the completion of the following classes in History and Performance:

MUS 130	Music History and Literature before 1750.....	3
MUS 131	Music History and Literature after 1750.....	3
MUS 181	*Applied Music.....	(.5)

MUSIC

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN MUSIC FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.SM

Associate in Arts in Music for Transfer

The Associate in Arts in Music for Transfer (AA-T) Degree is intended to meet the lower division requirements for music majors (or similar majors) at a CSU campus that offers a music baccalaureate degree. This degree prepares students to transfer to a Bachelor of Arts degree program, a capstone or terminal liberal arts degree with an emphasis in music. Students develop musical proficiency in theory, musicianship, and performance on their primary instrument or voice.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in music:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA; students should consult with a counselor for more information).
3. Completion of the 21 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSUGE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern

PROGRAM REQUIREMENTS

Required Courses	Units
MUS 103 Music Theory I.....	3
MUS 104 *Music Theory II.....	3
MUS 105 *Music Theory III.....	3
MUS 106 Musicianship I.....	1
MUS 107 *Musicianship II.....	1
MUS 156 *Musicianship III.....	1
MUS 181 *Applied Music.....	2
(Must be taken 4 times, for a total of 2 units (.5 units each semester)	
MUST 101 Introduction to Music Technology.....	3

The following large ensemble must be taken 4 times, for a total of 4 units (1 unit each semester):

MUS 116 or	*Diverse Instruments Ensemble.....	1
MUS 120	*Concert Choir I.....	1

Required Subtotal.....21

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

**Prerequisite*

The Music Department also recommends the completion of the following classes in Piano and History, in preparation for transfer to a California State University:

History (choose one)

MUS 130 – Music History Before 1750
MUS 131 – Music History After 1750

Piano Skills:

MUS 145 – Piano I
MUS 146 – *Piano II
MUS 147 – *Piano III
MUS 148 – *Piano IV

NURSING PROGRAMS OVERVIEW

DIVISION OF HEALTH SCIENCE AND NURSING

The Division of Health Science and Nursing

The Division of Health Science and Nursing offers two different types of programs: Associate Degree Nursing Program and Vocational Nursing Program. The division also offers three career certificates: Pre-Certification Nursing Assistant Course, Acute Care, and Home Health Aide. All three programs have exceptional pass rates on national exams and or state certification exams.

Associate Degree Nursing (ADN) Program

The ADN program is a two-year program designed to prepare students for employment as a registered nurse providing direct care to patients. The program is approved by the California State Board of Registered Nursing. Graduates receive an Associate in Science Degree of Nursing. Students who complete the program are qualified to take the examination leading to licensure as a Registered Nurse. In addition to the ADN program, we offer LVN to ADN Transition and a LVN-RN 30 Unit Option.

Associate Degree Nursing (LVN to ADN) Program

Licensed Vocational Nurses wishing to earn their Associate Degree in Nursing so they may qualify to take the examination for licensure as a Registered Nurse may enter the LVN to ADN Transition Program. This program is 2-1/2 semesters.

Associate Degree Nursing (LVN-RN 30-Unit Option) Program

Licensed Vocational Nurses wishing to qualify for licensure examination as a Registered Nurse but not obtain a degree may consider this 30-unit option.

The Vocational Nursing (VN) Program

The Vocational Nursing Program is a three-semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California State Board of Vocational Nursing and Psychiatric Technicians. Students, who complete the curriculum and achieve the career certificate are qualified to apply for the examination leading to licensure as a Licensed Vocational Nurse. Students also have the option of obtaining an Associate of Science degree in Vocational Nursing.

Career Certificates Pre-Certification Nursing Assistant

This Career Certificate is designed for the student wishing to gain employment in the Acute Care, Long-Term Care or Assisted Living settings. Areas of emphasis will include taking care of geriatric patients in a

long-term care setting utilizing skills in basic care, emergency care and communication. The student will gain a general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Career Certificate for Acute Care Certified Nursing Assistant

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the Acute Care Hospital setting. Areas of emphasis will include taking care of patients in the acute care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on the specialized acute care areas of medical/surgical/orthopedics, pediatrics and obstetrics. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Career Certificate for Home Health Aide

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the home care setting. Areas of emphasis will include taking care of patients in the home care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on rehabilitative nursing care, and family relationships. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.



NURSING PROGRAMS OVERVIEW CONTINUED

ADN Program Mission Statement

The Associate Degree Nursing Program (ADN) is committed to preparing students for the professional role of the registered nurse at the entry level. In addition, the aim of the program is to prepare the nursing student for academic advancement.

ADN Program Philosophy

The philosophy of the nursing program is in harmony with the mission, vision, and goals of Rio Hondo College. The Associate Degree Nursing Program strives to be an exemplary nursing program that provides opportunities for students from diverse backgrounds, ethnicities and cultures, to be educated, responsible and caring community members. Graduates are prepared for licensure as registered nurses. The faculty recognizes the importance of also preparing students to practice in a variety of settings as health care delivery evolves. Teaching/learning strategies will embrace student-centered, competency-based instruction. In addition, the program has established quality improvement measures to assure that educational competencies have been met.

This nursing program embraces four major concepts to provide an organizational framework for the curriculum. The major concepts are: The Systems Developmental Stress Model, The Nursing Process, Erikson's Psycho-Social Theory of Human Development, and Quality Safety Education for Nurses.

The curriculum is designed to prepare the graduate to carry out their roles as a nurse: planner of care; provider of safe and skilled care; communicator; client teacher; and member of the profession. The faculty believes it is essential for the new graduate to be able to carry out evidence-based care with efficient use of resources. The graduate will provide continuity of care as the client moves from acute hospital-based care to care in transitional units and other healthcare settings in the community.

The conceptual threads are interlaced throughout the program and are the essential core components and competencies. These competencies include: critical thinking, personal hygiene, patient protection and safety, pain management, human sexuality, client abuse, pharmacology, nutrition, patient advocacy, legal, social and ethical aspects of nursing, and nursing leadership and management.

Theoretical concepts will be presented from simple to complex, building on learning acquisition. The faculty believes that students need to apply standards of critical thinking and competency-based learning in order to formulate sound clinical judgments. Students are offered a number of approaches to learning, including technology and computer-assisted instruction in order to apply theory to a variety of clinical situations. Also, opportunities for learning are provided to students through clinical assignments in acute care, community facilities, the health science skill center, online, technology, and simulation. Learning may be facilitated by referral to support services provided by the college such as financial aid, remediation, tutoring, psychological counseling, and health services. A student-centered approach to learning will be supported by contemporary approaches to education, which provide a variety of techniques to appeal to varied learning styles. Student learning outcomes and competencies will measure

student achievements. Additionally, the faculty believes that curriculum should be developed and implemented based on Knowles's Theory of Adult Learning, which holds that the adult is self-directed and a lifelong learner. Learning progress is based on the student's mastery of course competencies. Mastery results in graduates that have achieved success in meeting program outcomes and are able to successfully pass the national licensing exam. These graduates are now prepared to transition into the health care system ready for job placement or advanced degrees.

ADN Program Outcomes

At the completion of the program, the graduate will meet the following outcomes while carrying out the roles of the nurse:

1. **Planner of Care:** The student will be able to utilize the Systems Developmental Stress Model and the Nursing Process to plan for and provide cultural, gender, and age appropriate patient care to a team of patients utilizing appropriate resources in an effective manner.
2. **Provider of Safe Skilled Care:** The student will be able to provide safe care to a group of patients in collaboration with other healthcare team members while delegating appropriately.
3. **Communicator:** The student will be able to effectively communicate with the patient, family, healthcare providers, and faculty and document according to clinical site parameters.
4. **Educator:** The student will be able to identify educational needs, create and deliver a teaching plan specific to the needs of the patient and family.
5. **Member of the Profession:** The student will display a professionalism while delivering care with caring and advocacy, mindful of ethical and legal obligations as a nurse.

ASSOCIATE DEGREE NURSING PROGRAM (RN) – GENERIC

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Rio Hondo College.
- c. Completion of all three science prerequisites (Human Anatomy, Human Physiology, and Microbiology) with an overall Science GPA of at least a 2.5 with no grade less than "C" for each course. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be completed within 7 years from application.
- d. A cumulative college grade point average (GPA) of at least 2.5 for all college coursework taken.
- e. Applicants must meet graduate proficiency requirements for math and reading either by completing the minimal required courses or demonstrate proficiency as evaluated by a Rio Hondo College counselor.

NURSING PROGRAMS OVERVIEW CONTINUED

- f. Must complete English 101 College Composition and Research with a grade of C or higher.
- g. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 will no longer be accepted for students entering the ADN program after January 1, 2017.

2. HEALTH REQUIREMENTS – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all applicants who are provisionally selected and those applicants who are alternates to the program.

3. PATIENT SAFETY AND BACKGROUND CHECKS – Based on California Board of Registered Nursing, and clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student provisionally accepted. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if the background check meets clinical placement requirements. See the Dean of Health Science and Nursing with questions concerning this procedure. All students will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the students upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

B. ADMISSION PROCEDURE

1. Obtain a Rio Hondo Student ID number by applying to the college. Application for admission to the College shall be submitted to the Admissions Office.
2. Attend an information session: It is recommended that applicants to the Associate Degree Nursing Program attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing.
3. Applicants must complete and submit an Associate Degree Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the

educational requirements are met.

4. Please check the Health Science and Nursing website for application deadlines.
5. Please bring one official copy of your high school transcripts, diploma or GED.
6. Official transcripts for college coursework completed to date should be sent to Rio Hondo College Admissions and Records Office. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to Rio Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

C. ADMISSION SELECTION

Acceptance to the Associate Degree Nursing Program will be based on selection criteria which includes the following:

1. Overall Cumulative GPA
2. Cumulative Science GPA
3. Other College Degrees
4. Current Health Care Work Experience
5. Current Medical/Nursing certificates/licenses
6. Life Experience
7. Other Language Spoken
8. ATI Results

Students will be selected on the basis of overall scores with those having the most points given priority. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of "C" or better, will be considered eligible for admission.

Students who are accepted to the program will be admitted to ADN 151 by permission of the Health Science and Nursing Division. This course is a prerequisite for admission to ADN first semester course (ADN 150) and is offered in the Spring semester and Summer session. Students who complete ADN 151 with a grade of "C" or better will continue the program in the Fall semester. Students failing the first course will not be eligible to continue the program and will need to reapply for admission.

D. EXPENSES – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens.

NURSING PROGRAMS OVERVIEW CONTINUED

Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Rio Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

F. REQUIREMENT FOR LICENSURE – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

G. TRANSFER STUDENTS – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis throughout the academic year. Previous nursing coursework must be no older than three years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Rio Hondo Associate Degree Nursing Program. Transfer students must demonstrate competence in clinical skills and pass a pharmacology math quiz with a score of 100% before admission to the program.

Above information subject to change



PSYCHIATRIC TECHNICIAN TO (RN) ASSOCIATE DEGREE NURSING

Determination of Eligibility for Admission to the ADN Program

Psychiatric Technicians wishing to become registered nurses follow the same admission procedures as those applicants for the associate degree nursing program. Psychiatric Technicians must also submit proof of their active California Psychiatric Technician license. PT-ADN students follow the same coursework of the ADN program as the Generic ADN students with the exception of receiving a waiver for ADN 252 and ADN 252L for prior knowledge and work as a Psychiatric Technician.

ASSOCIATE DEGREE NURSING PROGRAM – LVN TO ADN

Determination of Eligibility for Admission to the LVN to ADN Program

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION –

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Rio Hondo College.
- c. Copy of an active California Vocational Nurse license.
- d. Completion of all three science prerequisites (Anatomy, Physiology, and Microbiology) with an overall science GPA of at least a 2.5 and no grade less than a C. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be completed within the last seven years.
- e. A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
- f. Applicants must meet the graduate proficiency requirements for math and reading either by completing the minimal required coursework or demonstrate proficiency as evaluated by a Rio Hondo College counselor prior to application to the program.
- g. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 will no longer be accepted.

2. HEALTH REQUIREMENTS – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered

NURSING PROGRAMS OVERVIEW CONTINUED

Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all provisionally selected students and alternates.

B. ADMISSION PROCEDURE

1. Application for admission to the College shall be submitted to the Admissions Office.
2. Applicants to the Associate Degree Nursing Program should attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing. Applicants must complete and submit an Associate Degree Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
3. Please bring one official copy of your high school transcripts, diploma or GED. Official transcripts for college coursework completed to date should be sent to Rio Hondo College Admissions and Records Office. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to Rio Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

C. ADMISSION PROCESS – Acceptance to the Associate Degree LVN to ADN Nursing Program will be through the use of an admission’s formula developed by the California Community College Chancellor’s Office. The student’s overall cumulative GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the number of repetitions of science core courses will be used to determine the student’s eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of at least 2.5 in the science core courses, with no grade less than “C” for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of “C” or better, will be considered eligible for admission.

ADN 075 – LVN Transition into the Associate Degree Program is a prerequisite for admission to ADN second year course (ADN 251) and is offered once a year only. Following admission, the student will be given a permit to register for this course. Following completion of this course, with a grade of “C” or better, the student will continue the program.

D. EXPENSES – Uniforms, books, health and safety screenings, and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Rio Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

F. PATIENT SAFETY AND BACKGROUND CHECKS

– Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

NURSING PROGRAMS OVERVIEW CONTINUED

G. REQUIREMENT FOR LICENSURE – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

Above information subject to change.

NON GRADUATE 30 UNIT OPTION LVN TO RN

Determination of Eligibility for Admission to the LVN-RN Program

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION –

- Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- Students must meet the admission requirements for Rio Hondo College.
- GPA of 2.5 or above in all science prerequisites (Physiology and Microbiology), with a grade “C” or better.
- Completion of Reading 043, ENGL 035, Math 030, or equivalent, with a grade “C” or better, or demonstration of proficiency as evaluated by a Rio Hondo College counselor.
- Current CPR Card (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescuer) provided by the American Heart Association will be required after admission.
- Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 is no longer accepted.

2. HEALTH REQUIREMENTS – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed

physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the provisionally accepted student.

B. ADMISSION PROCEDURE

- Application for admission to the College shall be submitted to the Admissions Office for the purpose of obtaining a student ID.
- It is strongly recommended that all students considering the the 30 Unit Option LVN to RN Program should attend a nursing information session to discuss the restrictions of this option and required prerequisites. Applicants must complete and submit an application to the Health Science and Nursing Division for admission consideration to the 30 unit Option LVN to RN Program.
- Please bring one official copy of your high school transcripts, diploma, or GED. Official transcripts for college coursework completed to date should be sent to Rio Hondo College Admissions and Records Office. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to the Counseling Department. The international evaluation of college coursework should be a detailed report.

C. ADMISSION SELECTION – Acceptance to the 30 Unit Option will be through the use of an admission’s formula developed by the California Community College Chancellor’s Office. The student’s overall cumulative GPA for all college coursework taken, grades in the core science courses (physiology and microbiology), and the number of repetitions of science core courses will be used to determine the student’s eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of at least 2.5 in the science core courses, with no grade less than “C” for each course, have no more than one repetition of any of the science core courses, will be considered eligible for admission.

ADN 075 – LVN Transition into the Associate Degree Program is a prerequisite for admission to ADN second year course (ADN 251) and is offered only once a year. Following admission, the student will be given a permit to register for this course. Following completion of this course, with a grade of “C” or better, the student will continue the program.



NURSING PROGRAMS OVERVIEW CONTINUED

D. EXPENSES – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Rio Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office

F. PATIENT SAFETY AND BACKGROUND CHECKS – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/ or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

G. REQUIREMENT FOR LICENSURE – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents

without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

Above information subject to change.

VOCATIONAL NURSING PROGRAM

The Vocational Nursing Program is a two and a half semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is accredited by the California State Board of Vocational Nursing and Psychiatric Technicians. Students, who complete the curriculum and achieve the career certificate are qualified to apply for the examination leading to licensure as a Licensed Vocational Nurse.

Philosophy of the Vocational Nursing Program

The philosophy of the Vocational Nursing Program is in harmony with the stated philosophy of Rio Hondo College. The faculty recognizes the individual worth and potential of all students. Students come from a variety of backgrounds, age, sex, culture, lives and educational experience. The application of theoretical concepts occurs in the Health Science and Nursing Skill Center and the community clinical facilities. College support services include: financial aid, remediation, tutoring, psychological counseling and health services.

The conceptual framework of the Vocational Nursing curriculum focuses on the Medical Model, utilizing all aspects of the nursing process. The faculty believes that nursing is concerned with the promotion of health and wellness, and strives to provide a maximum quality of life. The Nursing curriculum includes the current health care delivery system; safety; therapeutic communication; patient teaching; nutrition; pharmacology, cultural diversity, gerontology, human sexuality, mental health, growth and development; reproduction; legal and ethical issues, and professional development, as applied to the Vocational Nurse.

Nursing is a broad occupational field involving a multiplicity of functions performed by individuals, with varying degrees of preparation. It is essential that students be assisted to recognize and accept their responsibility and scope of practice.

The nursing faculty believes education is a continuing process and students should be provided with the attitudes, skills and knowledge to qualify for licensure as well as an upward mobility to the Vocational Nursing Program.

NURSING PROGRAMS OVERVIEW CONTINUED

Determination of Eligibility for Admission to the LVN Program

A. ADMISSION REQUIREMENTS

1. Educational requirements for program application

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Rio Hondo College.
- c. Completion of HS 60 or Anatomy with a grade of "C" or better.
- d. Completion of Psychology 101 with a grade of "C" or better.
- e. Completion of READ 043, ENGL 035, MATH 030, 030D or 033 or equivalent, with a grade of "C" or better, or demonstration of proficiency as evaluated by a Rio Hondo College counselor.
- f. Current CPR Card (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescuer) provided by the American Heart Association will be required after admission.

2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Licensed Vocational Nurse. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have

various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the student upon admission to the program.

B. ADMISSION PROCEDURE

1. Application for admission to the College shall be submitted to the Admissions Office.
2. Applicants to the Vocational Nursing Program should attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing. Applicants must complete and submit a Vocational Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
3. The Vocational Nursing Program has once a year entry.
4. The Counseling Department will evaluate academic records and complete an admissions card. Please bring one official copy of your high school transcripts, diploma or GED, and transcripts for college work completed to date to the Health Science and Nursing Division. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to the Health Science and Nursing Division. The international evaluation of college coursework should be a detailed report.
5. All applicants will be notified in writing regarding acceptance.



NURSING PROGRAMS OVERVIEW CONTINUED

C. ADMISSION PROCESS – Acceptance to the Vocational Nursing Program is done using a random selection from all qualified applicants. This selection process is in accordance with the State Board of Vocational and Psychiatric Technicians and the California Community College Chancellor's Office. Only applicants meeting the requirements will be placed in the pool for selection. Each class selection will be completed using the above process. Student will be notified in writing by the Health Science and Nursing Division of permission to register.

D. Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL – Rio Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Rio Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

F. PATIENT SAFETY AND BACKGROUND CHECKS – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Vocational Nursing and Psychiatric Technicians requires the applicant for licensure as a Vocational Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain

the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

G. REQUIREMENT FOR LICENSURE – The Board of Vocational Nursing and Psychiatric Technicians requires a valid social security number for licensure. The Board of Vocational Nursing and Psychiatric Technicians should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Vocational Nursing and Psychiatric Technicians can be reached at 916-263-7800.

H. TRANSFER STUDENTS – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis. Previous nursing coursework must be no older than five years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Rio Hondo Vocational Nursing Program.

Above information subject to change.

Revised August 2016



NURSING

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE OF SCIENCE DEGREE

Generic Student

The Associate Degree Nursing Program is a two-year program designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associate of Science Degree in Nursing**. The program is approved by the California State Board of Registered Nursing. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse.

Prerequisites /Corequisites	Units
BIOL 125 *Human Anatomy.....	4
BIOL 226 *Human Physiology**.....	4
BIOL 222 *Microbiology**.....	5
ENGL 101 *College Composition and Research.....	3.5
	16.5
ADN 151 *Clinical Nursing Concepts.....	2
ADN 151L *Clinical Nursing Concepts Lab.....	2

Offered only once a year. Permit to register given only to students admitted to the program.

****CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.**

Other Required Courses	Units
MATH 070 or Intermediate Algebra or 070D or 073 appropriate assessment.....	4
READ 043 Reading College Textbooks or appropriate assessment.....	3
<i>(Reading proficiency required for graduation)</i>	
SOC 101 or Introduction to Sociology.....	3
SOC 101H *Introduction to Sociology Honors.....	3
SPCH 101 Public Speaking or equivalent.....	3
SPCH 101H *Public Speaking or equivalent Honors.....	3
PSY 101 or Introductory Psychology.....	3
PSY 101H *Introductory Psychology Honors.....	3
AMERICAN INSTITUTIONS (One Course).....	3
FINE ARTS (One Course).....	3
HUMANITIES (One Course).....	3
KINESIOLOGY (2 Activity Courses).....	2
	27

(The Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 043, or equivalent.)

COURSES REQUIRED AFTER PROGRAM ADMISSION BY PERMIT ONLY

FIRST YEAR-FALL SEMESTER	Units
ADN 150 *Medical/Surgical Nursing I.....	4
ADN 150L *Medical/Surgical Nursing I Lab.....	4
ADN 154 *Pharmacology.....	2
	10

*HS 045 Math for Health Professionals
(optional elective for 1 unit)*

FIRST YEAR-SPRING SEMESTER	Units
ADN 155 *Nursing Process: Childbearing Family/Women's Health.....	2
ADN 155L *Nursing Process: Childbearing Family/Women's Health Lab.....	2
ADN 156 *Nursing Process Applied to the Care of Children.....	2
ADN 156L *Nursing Process Applied to the Care of Children Lab.....	2
	8

SECOND YEAR-FALL SEMESTER	Units
ADN 250 *Advanced Pharmacology.....	1
ADN 251 *Medical Surgical Nursing II.....	2
ADN 251L *Medical Surgical Nursing II Lab.....	2.5
ADN 252 *Psychiatric/Mental Health Nursing.....	2
ADN 252L *Psychiatric/Mental Health Nursing Lab.....	1.5
	9

SECOND YEAR-SPRING SEMESTER	Units
ADN 253 *Medical Surgical Nursing III.....	2
ADN 253L *Medical Surgical Nursing III Lab.....	3
ADN 254 *Leadership and Management in Nursing.....	1.5
ADN 254L *Leadership and Management in Nursing Lab.....	2.5
	9

Total Units 83.5-84.5

**Prerequisite*

**The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN licensing examination. All of these courses must be completed with a grade of "C" or better.*

NURSING

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE OF SCIENCE DEGREE

LVN to ADN (OPTION #1)

The Associate Degree Nursing Program may be completed by the Licensed Vocational Nurse in one year. It is designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associate of Science Degree in Nursing**. The California State Board of Registered Nursing approves the program. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse.

Prerequisites / Corequisites	Units
BIOL 125 *Human Anatomy.....	4
BIOL 226 *Human Physiology**.....	4
BIOL 222 *Microbiology**.....	5
ENGL 101 *College Composition and Research.....	3.5
Required Subtotal.....	16.5

Other Required Courses	Units
MATH 070 or Intermediate Algebra or MATH 070D or MATH073 appropriate assessment	4
READ 043 *Reading College Textbooks or appropriate assessment	3
<i>(Reading proficiency required for graduation)</i>	
SOC 101 or Introduction to Sociology	3
SOC 101H *Introduction to Sociology Honors	3
SPCH 101 or Public Speaking or equivalent	3
SPCH 101H *Public Speaking or equivalent Honors	3
PSY 101 or Introductory Psychology.....	3
PSY 101H *Introductory Psychology Honors.....	3
AMERICAN INSTITUTIONS (One Course).....	3
FINE ARTS (One Course).....	3
HUMANITIES (One Course).....	3
KINESIOLOGY (2 Activity Courses)	2
Required Subtotal.....	27

(The Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 043, or equivalent.)

COURSES REQUIRED AFTER PROGRAM ADMISSION-BY PERMIT ONLY

ADN 075	*LVN Transition into the Associate Degree Nursing Program	2.5
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FALL SEMESTER	Units
ADN 250 *Advanced Pharmacology.....	1
ADN 251 *Medical Surgical Nursing II	2
ADN 251L *Medical Surgical Nursing II Lab.....	2.5
ADN 252 *Psychiatric/Mental Health Nursing	2
ADN 252L *Psychiatric/Mental Health Nursing Lab.....	1.5
Required Subtotal.....	9

SPRING SEMESTER	Units
ADN 253 *Medical Surgical Nursing III.....	2
ADN 253L *Medical Surgical Nursing III Lab	3
ADN 254 *Leadership and Management in Nursing.....	1.5
ADN 254L *Leadership and Management in Nursing Lab	2.5
Required Subtotal.....	9

**Course required by BRN to sit for licensing exam. All of these courses must be completed with a grade of "C" or better.*

LICENSED VOCATIONAL NON-DEGREE-30 UNIT OPTION (OPTION #2) 30 Unit Option LVN to RN

This one-year program is for the applicant with a valid California Vocational Nurse license. The Vocational Nurse who completes thirty additional units beyond the LVN curriculum qualifies to take the licensing examination as a Registered Nurse. This option does not lead to an Associate Nursing Degree.

The program is designed to prepare students for employment as a **Registered Nurse**, providing direct care to patients. The student should be aware that they may not change their status as a 30 unit option RN with the Board of Registered Nursing at any time after licensure. Individuals who become licensed as Registered Nurses using this option may not be eligible for licensure in states other than California or for any advanced degrees. The program is accredited by the California Board of Registered Nursing.

Prerequisites / Corequisites	Units
BIOL 226 *Human Physiology**.....	4
BIOL 222 *Microbiology**.....	5
Required Subtotal.....	9
ADN 075 *LVN Transition into the Associate Degree Nursing Program.....	2.5

Admission by permission of the Health Science and Nursing Division-once per year only.

***CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.*

COURSES REQUIRED AFTER PROGRAM ADMISSION-BY PERMIT ONLY

FALL SEMESTER	Units
ADN 250 *Advanced Pharmacology.....	1
ADN 251 *Medical Surgical Nursing II	2
ADN 251L *Medical Surgical Nursing II Lab.....	2.5
ADN 252 *Psychiatric/Mental Health Nursing	2
ADN 252L *Psychiatric/Mental Health Nursing Lab.....	1.5
Required Subtotal.....	9

**Prerequisite*

SPRING SEMESTER		Units
ADN 253	*Medical Surgical Nursing III.....	2
ADN 253L	*Medical Surgical Nursing III Lab	3
ADN 254	*Leadership and Management in Nursing.....	1.5
ADN 254L	*Leadership and Management in Nursing Lab.....	2.5

Required Subtotal..... 9

Total Units 29.5

*Prerequisite

*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN licensing examination. All of these courses must be completed with a grade of "C" or better.

ASSOCIATE OF SCIENCE DEGREE

Psychiatric Technician to RN Associate Degree Nursing

The Associate Degree Nursing Program is a two-year program designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associate of Science Degree in Nursing**. The program is approved by the California State Board of Registered Nursing. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse. Current California psychiatric technician license required.

Prerequisites/Corequisites		Units
BIOL 125	*Human Anatomy.....	4
BIOL 226	*Human Physiology	4
BIOL 222	*Microbiology	5
ENGL 101	*College Composition and Research	3.5

Required Subtotal..... 16.5

ADN 151	*Clinical Nursing Concepts	2
ADN 151L	*Clinical Nursing Concepts Lab.....	2

Offered only once per year. Permit to register given only to students admitted to the program. This course may be waived by testing.

Other Required Courses		Units
MATH 070 or 070D or 073	Intermediate Algebra or appropriate assessment	4
READ 043	Reading College Textbooks or appropriate assessment	3
<i>(Reading proficiency required for graduation)</i>		
SOC 101 or SOC 101H	Introduction to Sociology	3
SPCH 101	Public Speaking or equivalent	3
SPCH 101H	*Public Speaking or equivalent Honors	3
PSY 101 or PSY 101H	Introductory Psychology	3
AMERICAN INSTITUTIONS (One Course)	3
FINE ARTS (One Course)	3
HUMANITIES (One Course)	3
KINESIOLOGY (2 Activity Courses)	2

Required Subtotal..... 27

(The Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 043, or equivalent.)

FIRST YEAR-FALL SEMESTER		Units
ADN 150	*Medical/Surgical Nursing I	4
ADN 150L	*Medical/Surgical Nursing I Lab.....	4
ADN 154	*Pharmacology.....	2

10

*HS 045 Math for Health Professionals
(optional elective for 1 unit)*

FIRST YEAR-SPRING SEMESTER		Units
ADN 155	*Nursing Process: Childbearing Family/Women's Health.....	2
ADN 155L	*Nursing Process: Childbearing Family/Women's Health Lab	2
ADN 156	*Nursing Process Applied to the Care of Children	2
ADN 156L	*Nursing Process Applied to the Care of Children Lab.....	2

Required Subtotal..... 8

SECOND YEAR-FALL SEMESTER		Units
ADN 250	*Advanced Pharmacology.....	1
ADN 251	*Medical Surgical Nursing II	2
ADN 251L	*Medical Surgical Nursing II Lab.....	2.5
ADN 252	*Psychiatric/Mental Health Nursing.....	waived
ADN 252L	*Psychiatric/Mental Health Nursing Lab.....	waived

Required Subtotal..... 5.5
(waiver with active psychiatric technician license)

SECOND YEAR-SPRING SEMESTER		Units
ADN 253	*Medical Surgical Nursing III.....	2
ADN 253L	*Medical Surgical Nursing III Lab	3
ADN 254	*Leadership and Management in Nursing	1.5
ADN 254L	*Leadership and Management in Nursing Lab.....	2.5

Required Subtotal..... 9

Total Units 80

*Prerequisite

*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN licensing examination. All of these courses must be completed with a grade of "C" or better.

NURSING

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE OF SCIENCE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Vocational Nursing Program

The Vocational Nursing Program is offered as an Associate of Science Degree or as a Certificate of Achievement. Students opting for the Associate Degree should have all the General Education requirements completed prior to entering the Vocational Nursing Program.

The **Vocational Nursing Program** is a two-and-a-half semester program following completion of prerequisite courses. It is designed to prepare students for employment as staff nurses, giving care to patients in a variety of settings, such as extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California State Board of Vocational Nursing and Psychiatric Technicians. Students who complete the curriculum and achieve the certificate of completion, are qualified to take the examination leading to licensure as a Licensed Vocational Nurse.

A 2.5 or better grade point average in all college work attempted is required for completion of the program and qualification to take the examination leading to licensure as a Licensed Vocational Nurse.

Academic Requirements:	Units
MATH 030 or 030D or 033	*Prealgebra or appropriate assessment.....4
ENGL 035	*Intermediate Composition for Developing Writers or appropriate assessment.....3
READ 043	*Reading College Textbooks or appropriate assessment.....3
Required Subtotal.....	10

Prerequisites	Units
HS 060	*Health Science Core5
PSY 101 or PSY 101H	*Psychology.....3
VN 061	*Psychology Honors.....3
VN 061	*Basic Fundamentals of Nursing.....3.5
VN 061L	*Basic Fundamentals of Nursing Lab5
Required Subtotal.....	16.5

HS 045 Math for Health Professionals
(optional elective for 1 unit)

(VN 061 and 061L are offered once per year by permit.)

FALL SEMESTER		Units
VN 071L	*Introduction to Medical-Surgical Nursing Lab	3.5
VN 072L	*Intermediate Medical-Surgical Nursing Lab	3.5
VN 073	*Basic Pharmacology	2
VN 074	*Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing	2.5
VN 075	*Nursing Care of Patients with Endocrine Problems	1
VN 076	*Nursing Care of Patients with Renal, Urinary and Gastrointestinal Problems.....	3.5
VN 077	*Nursing Care of Patients with Cardiovascular and Respiratory Problems.....	3
Required Subtotal.....		19

SPRING SEMESTER		Units
VN 081L	*Maternal and Pediatric Nursing Lab.....	2.5
VN 082L	*Advanced Medical/Surgical Nursing Lab.....	3.5
VN 083	*Applied Pharmacology	2
VN 084	*Maternal & Pediatric Nursing.....	4
VN 085	*Leadership & Supervision for the Vocational Nurse	5
VN 086	*Mental Health & Neurological Nursing Problems	3
VN 087	*Nursing Care of Patients with Cancer	1
Required Subtotal.....		16.5

Total Units 62

**Prerequisite*

See Nursing Program Overview appendix pages - for Philosophy, Admissions Requirements and Admissions Procedures.

NURSING

DIVISION OF HEALTH SCIENCE & NURSING

CAREER CERTIFICATE

Certified Nurse Assistant Acute Care

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the Acute Care Hospital setting. Areas of emphasis will include taking care of patients in the acute care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on the specialized acute care areas such as medical/surgical/orthopedics, pediatrics and obstetrics. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Required Courses		Units
HS 051	*Certified Nurse Assistant Acute Care Training Course	1.5
HS 051L	*Certified Nurse Assistant Acute Care Training Course Lab	1.5

Units Required 3

*Prerequisite

CAREER CERTIFICATE

Nurse Assistant Pre-Certification Training Course

This Career Certificate is designed for the student wishing to gain employment in the Acute Care, Long-Term Care or Assisted Living settings. Areas of emphasis will include taking care of geriatric patients in a long-term care setting utilizing skills in basic care, emergency care and communication. The student will gain a general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Required Courses		Units
HS 050	Nurse Assistant Pre-Certification Training Course	4
HS 050L	Nurse Assistant Pre-Certification Training Course Lab.....	2.5

Units Required 6.5

*Prerequisite

CAREER CERTIFICATE

Home Health Aide

This Career Certificate is designed for the student who already has their CNA wishing to gain employment in the home care setting. Areas of emphasis will include taking care of patients in the home care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on rehabilitative nursing care, and family relationships. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Required Courses		Units
HS 052	*Home Health Aide Training Course.....	1.5
HS 052L	*Home Health Aide Training Course Lab	1

Units Required 2.5

*Prerequisite



NUTRITION AND DIETETICS

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE IN SCIENCE IN NUTRITION AND DIETETICS FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Science in Nutrition and Dietetics for Transfer

The **Associate in Science in Nutrition and Dietetics for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Nutrition and Dietetics majors (or similar majors) at a CSU campus that offers a Nutrition and Dietetics baccalaureate degree. This degree is designed for students interested in an introduction to the field of Nutrition and Dietetics and for students looking to further their understanding of nutrition and health. These courses will provide students with a solid foundation in nutrition that will serve them for either transferring or in the workplace.

In addition to the courses listed below, the following additional requirements must be met for completion of the AS-T Degree in Nutrition and Dietetics:

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 27-29 semester units in the major with a grade of "C" or better, or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Nutrition and Dietetics major at the CSU where they seek transfer.

Required Courses		Units
NUTR 110	Introduction to Nutrition Science	3
PSY 101 or PSY 101H	Introduction in Psychology	3
	*Introduction in Psychology Honors	3
CHEM 130	*General Chemistry I	5
BIOL 222	*Microbiology	5
NUTR 120	Principles of Food with Lab	3
Required Subtotal.....		19

Choose two courses from LIST A (8-10 units):

LIST A		
CHEM 140	*General Chemistry II.....	5
CHEM 230	*Organic Chemistry I.....	5
BIOL 125	Human Anatomy with Lab	4
BIOL 226	*Human Physiology with Lab.....	4
MATH 130 or MATH 130H	*Introduction to Statistics	4
	*Introduction to Statistics Honors.....	4
PSY 190	*Statistics for the Behavioral Sciences	4
Required Subtotal.....		27-29

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

ORTHOPEDIC TECHNICIAN PROGRAM

DIVISION OF HEALTH SCIENCE AND NURSING

CERTIFICATE OF ACHIEVEMENT

This program of study will provide students with in-depth knowledge and skills necessary to work as an orthopedic technician. Skills include immobilization, traction, casting, splitting, and assisting physicians with orthopedic care. The program of study requires all applicants to complete BIOL 125 with a grade of "C" or better, and passing of the reading and math assessment tests scoring above READ 043 and ENGL 035 prior to application. Following acceptance into the Orthopedic Technician program, the students will complete four core orthopedic courses. In total the program of study is 19 units. Upon completion of the program, students will receive a Certificate of Achievement and be eligible to take the national certification exam through the National Board of Certified Orthopedic Technicians (NBCOT).

To acquire the **Certificate of Achievement in the Orthopedic Technician Program**, it is necessary to complete the following courses:

Required Courses		Units
BIOL 125	Human Anatomy.....	4
ORTH 040	*Introduction to Orthopedic Technology.....	4
ORTH 050	*Orthopedic Technician Health Assessment.....	3
ORTH 060	*Orthopedic Technician Modalities	4
ORTH 070	*Orthopedic Technician Practicum.....	4

Units Required 19

**Prerequisite*

PHILOSOPHY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Philosophy for Transfer

The **Associate in Arts in Philosophy for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Philosophy majors (or similar majors) at a CSU campus that offers a Philosophy baccalaureate degree. It will provide a broad introduction to philosophy for those interested in building a foundation for an eventual Bachelor's Degree in Philosophy, or for those seeking a structured exploration of philosophy for other reasons.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Philosophy:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Philosophy major at the CSU where they seek transfer. Students who are planning on transferring to a CSU are strongly advised to take PHIL 115—Symbolic Logic to prepare for further study.

Required Courses (6 units)

Choose one course from the following list:

	Units
PHIL 112 or Introduction to Logic.....	3
PHIL 112H *Introduction to Logic Honors	3
PHIL 115 Symbolic Logic.....	3

Choose one course from the following list:

PHIL 101 or Introduction to Philosophy.....	3
PHIL 101H *Introduction to Philosophy Honors	3
PHIL 120 Introduction to Ethics.....	3

LIST A (3 units)

Choose one course from the following list:

PHIL 124 History of Philosophy: Ancient.....	3
PHIL 126 History of Philosophy: Modern.....	3

LIST B (6 units)

Choose two courses from the following list or any course not already selected from above.

PHIL 110 or *Critical Thinking.....	3
PHIL 110H *Critical Thinking Honors	3
PHIL 140 Philosophy of Religion.....	3

LIST C (3 units)

Choose one course from the following list or any course not already selected from above.

PHIL 128/ POL 128 or Introduction to Political Philosophy	3
PHIL 128H/ POL 128H *Introduction to Political Philosophy Honors.....	3
PHIL 135 Philosophy and Contemporary Issues.....	3

Required Subtotal18

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

PHOTOGRAPHY

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree provides students with a foundational knowledge of important conceptual and technical aspects of fine art photography with the goal of preparing students to transfer to a four-year university. The courses in this degree emphasize photography as a means of communication and personal expression, with an emphasis on cultural significance and visual literacy.

Students planning to prepare for a four-year degree in Photography should consult the lower division requirements of the university to which they plan to transfer.

To acquire the **Associate of Arts Degree in Photography**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
ART 105 or	Survey of Western Art: Prehistory through the Middle Ages.....	3
ART 105H	*Survey of Western Art: Prehistory through the Middle Ages.....	3
ART 106 or	Survey of Western Art: Renaissance to Contemporary	3
ART 106H	*Survey of Western Art Renaissance to Contemporary Honors.....	3
ART 120	Two Dimensional Design.....	3
ART 121	Three Dimensional Design.....	3
ART 130	Freehand Drawing I	3
GDSN 178	Digital Imaging Design.....	3
PHTO 185	Introduction to Digital Photography.....	3
PHTO 190	Beginning Photography.....	3
PHTO 191	*Intermediate Photography	3
PHTO 292	*Digital Photography	3

Units Required 30

**Prerequisite*

PHYSICS

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER



Associate Degree
for Transfer

*A Degree with a Guarantee.*SM

Associate in Science in Physics for Transfer

The **Associate in Science in for Transfer (AS-T)** degree is intended to meet the lower division requirements for Physics and Physics Education majors at a CSU campus that offers a Physics baccalaureate degree.

Physics will prepare those students interested in laying a foundation for further study and for a Bachelor's Degree in Physics and Physics Education. Since physics is the most basic of sciences, this degree will also satisfy the lower division requirements for a variety of baccalaureate degrees including, Engineering, Chemistry, Mathematics, and Computer Science.

In addition to the courses listed below, the following additional **requirements must be met for completion of the AS-T Degree in Physics:**

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 24 semester units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Physics major at the CSU where they seek transfer.

Required Courses

	Units
PHY 211	*Physics for Scientists and Engineers – I4
PHY 212	*Physics for Scientists and Engineers – II.....4
PHY 213	*Physics for Scientists and Engineers – III4
MATH 190 or	*Calculus I
MATH 190H	*Calculus I Honors.....4
MATH 191	*Calculus II.....4
MATH 250	*Calculus III4
Required Subtotal	24

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

POLICE ACADEMY/ BASIC POLICE ACADEMY

DIVISION OF PUBLIC SAFETY

CERTIFICATE OF ACHIEVEMENT

Basic Police Academy

The Rio Hondo Police Academy is a certificate program which is designed to prepare students to become entry-level police officers in local and state law enforcement agencies in California. This training course includes 42 learning domains, which includes instruction in leadership, professionalism and ethics, the criminal justice system, policing in the community, introduction to criminal law, laws of arrest, search and seizure, presentation of evidence, investigative report writing, vehicle operations, use of force, traffic enforcement, crime scenes, evidence, forensics, custody, arrest methods, First Aid/CPR, firearms, chemical agents, information systems, crimes against the justice system, cultural diversity/discrimination, and procedural justice. This course also meets the certification requirements of the Commission on Peace Officer Standards and Training (POST).

To acquire the **Certificate of Achievement in Basic Police Academy**, it is necessary to complete the following courses:

Required Courses	Units
PAC 075B or *Basic Course – Module III (Ext).....	7
PAC 075E *Basic Academy Intensive Modular III.....	7
and	
PAC 075C or *Basic Course – Module II (Ext)	8.5
PAC 075F *Basic Academy Intensive Modular II.....	8.5
and	
PAC 075D or *Basic Course – Module I (Ext).....	21.5
PAC 075G *Basic Academy Intensive Modular I.....	21.5

Units Required 37

**Prerequisite*

Police Academy Module I

The Police Officer Training Certificate of Achievement is a program that is designed to prepare students to become entry-level police officers in local and state law enforcement agencies in California. This training course includes 42 learning domains, which includes instruction in leadership, professionalism and ethics, the criminal justice system, policing in the community, introduction to criminal law, laws of arrest, search and seizure, presentation of evidence, investigative report writing, vehicle operations, use of force, traffic enforcement, crime scenes, evidence, forensics, custody, arrest methods, First Aid/CPR, firearms, chemical agents, information systems, crimes against the justice system, cultural diversity/discrimination, and procedural justice. This course also meets the certification requirements of the Commission on Peace Officer Standards and Training (POST).

To acquire the **Certificate of Achievement in Police Academy Module I**, it is necessary to complete the following courses:

Required Courses	Units
PAC 075D or *Basic Course – Module I (Ext).....	21.5
PAC 075G *Basic Academy Intensive Modular I.....	21.5

Units Required 21.5

**Prerequisite*

POLICE ACADEMY

DIVISION OF PUBLIC SAFETY

CAREER CERTIFICATE

Basic Police Training (Open to all students)

Several programs at Rio Hondo College are certified by the Commission of Peace Officer Standards and Training (POST). There are certain minimum physical requirements for peace officers as well as requirements of good moral character. Students may obtain more specific information about these requirements from the Administration of Justice staff.

At the Administration of Justice Regional Training Center, a modern and complete law enforcement training facility is maintained. The center is equipped to train in the use of firearms, obstacle course for physical training, and weight training apparatus and driver training exercises. The facility is equipped to train in other areas related to the field of law enforcement, security and corrections. If you are interested in attending the Rio Hondo Police Academy, there are information meetings being held on a monthly basis. Please call at (562) 463-7756.

Students who have previously earned a Basic POST Certificate or who are transferring to Rio Hondo College from another college as Administration of Justice majors must meet the college transfer requirements and complete at least six units of Administration of Justice courses at Rio Hondo College in addition to regular required courses to be eligible for graduation.

Required Courses		Units
PAC 040 or	*Basic Police Recruit Class	24
PAC 075 B, C, and D	*Basic Police Recruit Classes (Level III-I)	37

**Prerequisite*



POLITICAL SCIENCE

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Political Science for Transfer

The **Associate in Arts in Political Science for Transfer Degree** is intended to meet the lower division requirements for Political Science majors (or similar majors) at a CSU campus that offers a Political Science baccalaureate degree.

This degree will introduce students to the broad discipline of political science. It involves the study of political structures, processes and social conditions as they relate to political situations, policy formulation approaches, and intergovernmental relations. This program is particularly relevant for students interested in pursuing a Bachelor's Degree in Political Science from a California State University, or for those seeking a structured examination into political systems.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Political Science:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18-19 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Political Science major at the CSU where they seek transfer.

Required Courses		Units
POLS 110 or POLS 110H	American Government *American Government Honors.....	3

Choose at least nine units from the following list:

POLS 128/ PHIL 128	Introduction to Political Philosophy.....	3
POLS 128H/ PHIL 128H	*Introduction Political Philosophy Honors.....	3
POLS 130	Comparative Government	3
POLS 140	International Relations	3
MATH 130 or MATH 130H or PSY 190	*Statistics *Statistics Honors..... *Statistics for the Behavioral Sciences	4

Choose six units from the following list:

ECON 101 or ECON 101H	*Principles of Macroeconomics *Principles of Macroeconomics Honors.....	3
ECON 102 or ECON 102H	*Principles of Microeconomics *Principles of Microeconomics Honors.....	3
ECON 106	Economics of Contemporary Issues	3
HIST 143 or HIST 143H	History of the United States to 1877 *History of the United States to 1877 Honors.....	3
HIST 144 or HIST 144H	History of the United States Since 1865 *History of the United States Since 1865 Honors.....	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans.....	3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans & Women..... *US Comparative History of Mexican and Asian Americans & Women Honors	3
HIST 170	Women in American History.....	3
POLS 125	Law and Democracy.....	3
POLS 135/ ECON 135	International Political Economy	3
POLS 150/ CHST 150	Chicano Politics.....	3

Required Subtotal..... 18-19

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total: 60 units

*Prerequisite

PSYCHOLOGY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN PSYCHOLOGY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Psychology for Transfer

The Associate in Arts in Psychology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Psychology majors (or similar majors) at a CSU campus that offers a Psychology baccalaureate degree.

This degree is designed for students interested in an introduction to the field of psychology and for students looking to further their understanding of the biological, psychological and environmental influences that guide human behavior. These courses will provide students with a solid foundation in psychology that will serve them for either transferring or in the workplace.

In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Arts in Psychology for Transfer Degree:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 19 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Psychology major at the CSU where they seek transfer.

Required Courses	Units
PSY 101 or	Introductory Psychology
PSY 101H	*Introductory Psychology Honors.....3
PSY 200	*Research Methods in Psychology.....3
PSY 210 or	*Biological Psychology
PSY 210H	*Biological Psychology Honors.....3

(choose one statistics course)

MATH 130 or	*Statistics
MATH 130H or	*Statistics Honors.....4
PSY 190	*Statistics for the Behavioral Science.....4

Choose one course from the following list:

PHIL 110	*Critical Thinking.....3
PSY 112	Lifespan Development.....3
SOC 101 or	Introduction to Sociology
SOC 101H	*Introduction to Sociology Honors.....3

Choose one course from the following list:

PHIL 101 or	Introduction to Philosophy
PHIL 101H	*Introduction to Philosophy Honors.....3
PSY 114	Abnormal Psychology.....3
PSY 170	Introduction to Learning and Memory.....3
PSY 180	Positive Psychology.....3
SOC 102	Social Problems.....3

Required Subtotal.....19

CSU GE or IGETC Pattern..... Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

SOCIAL JUSTICE STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN SOCIAL JUSTICE STUDIES FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Social Justice Studies for Transfer

The Associate in Arts in Social Justice Studies for Transfer (AA-T) Degree is intended to meet the lower division requirements for Various Social Science majors (or similar majors) at a CSU campus that offers a Social Justice baccalaureate degree. The Social Justice Studies degree is an interdisciplinary degree that engages students in examining identity issues such as gender, race, class, ethnicity, and nationality as they intersect with the social justice issues of racism, sexism, classism, terrorism and other oppressive structures within society. This degree is designed to appeal to the student who is interested in learning about the experiences of marginalized groups and those going into majors such as: Sociology, History, Political Science, Women's Studies, Race and Ethnic Studies.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T in Social Justice Studies.

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department for the courses accepted into the various majors that fall under the umbrella of "Social Justice" at the CSU where they seek transfer.

Required Courses	Units
SOC 102	Major Social Problems.....3
SOC 116	Introduction to Race and Ethnic Relations3
SOC 120	Perspectives of Sex & Gender3

Choose 3 units from the following list:

HIST 122	History of Mexico.....3
HIST 158	US Comparative History of American Indians and Black Americans.....3
HIST 170	Women in American History3

Choose 3 units from the following list:

CHST 146	The Mexican American in the History of the United States.....3
LIT 117 or LIT 117H	Mexican Literature in Translation3 *Mexican Literature in Translation Honors.....3
LIT 130 or LIT 130H	*Women and Literature.....3 *Women and Literature Honors3
LIT 149	Introduction to Chicana/Chicano Literature3

Choose 3 units from the following list:

CHST 101	Introduction to Chicano Studies.....3
CHST 148	La Chicana: The Contemporary Mexican-American Female3
HIST 156	Black American Experience to 18653
HIST 157	Black American Experience since 1865.....3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans and Women3 *US Comparative History of Mexican and Asian Americans and Women Honors.....3
HUM 130	Contemporary Mexican-American Culture3
PHIL 101 or PHIL 101H	Introduction to Philosophy.....3 *Introduction to Philosophy Honors3
POLS/CHST 150	Chicano Politics3
SOC 105	Introduction to Human Sexuality.....3
SOC/ANTH 110	Human Sexuality from a Cross-Cultural Perspective.....3

Required Subtotal.....18

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

*Prerequisite

SOCIAL WORK

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Social Work provides a foundation for students interested in the fields of social work, human services, counseling and related areas. The curriculum is designed to meet lower-division transfer courses for many CSU's with majors in Social Work, Sociology with an emphasis in Social Work or Human Services. The degree also offers a basis for students interested in paraprofessional jobs in the human services field. See admission requirements of individual colleges and universities and transfer requirements for specific majors.

To acquire the **Associate of Arts Degree in Social Work**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units
HUSR 111	Human Services in Contemporary Society.....	3
HUSR 199A	*Seminar in Human Services.....	1
HUSR 199B	*Fieldwork in Human Services.....	2-3
MATH 130* or MATH 130H or PSY 190	*Statistics or Statistics Honors..... *Statistics for the Behavioral Sciences	4 4
PSY 101 or PSY 101H	Introduction to Psychology	3
PSY 101H	*Introduction to Psychology Honors	3
SOC 101 or SOC 101H	Introduction to Sociology	3
SOC 101H	*Introduction to Sociology Honors	3
 <i>Choose ONE course from the following list:</i>		
AJ 101	Introduction to Administration of Justice	3 3
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology..... *Introduction to Cultural Anthropology Honors.....	3 3 3
CD 106	Child Growth and Development.....	3
CD 208	Child, Family and Community.....	3
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking..... *Advanced Composition and Critical Thinking Honors.....	3.5 3.5
HIST 143 or HIST 143H	History of the United States to 1877..... *History of the United States to 1877 Honors....	3 3
HIST 144 or HIST 144H	History of the United States Since 1865..... *History of the United States Since 1865 Honors	3 3 3
PSY 112	Lifespan Development	3
PSY 114	Introduction to Abnormal Psychology	3
SOC 102	Major Social Problems.....	3

Units Required 19-20

*Prerequisite

SOCIOLOGY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Sociology for Transfer

The Associate in Arts in Sociology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Sociology majors (or similar majors) at a CSU campus that offers a Sociology baccalaureate degree.

This degree is designed to give foundational knowledge in the field of Sociology for students looking to transfer, or for those who desire a broad understanding of Sociology and the social world.

In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Arts in Sociology for Transfer Degree:

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18-20 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Sociology major at the CSU where they seek transfer.

Required Courses		Units
SOC 101 or	Introduction to Sociology	3
SOC 101H	*Introduction to Sociology Honors	3

Any TWO courses from the following list:

SOC 102	Major Social Problems.....	3
PSY 200	*Research Methods in Psychology.....	3
MATH 130 or	*Statistics	
MATH 130H or	*Statistics Honors.....	4
PSY 190	*Statistics for the Behavioral Sciences	4

Any TWO courses from the following list or not used above:

SOC 114	Marriage, Family and Intimate Relationships	3
SOC 116	Introduction to Race and Ethnic Relations.....	3
SOC 120	Perspectives of Sex and Gender.....	3
SOC 127	Introduction to Criminology.....	3

Any ONE course from the following list:

SOC 105	Introduction to Human Sexuality	3
SOC 110/ ANTH 110	Human Sexuality from a Cross-Cultural Perspective	3

Required Subtotal..... 18-20

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

**Prerequisite*

SPANISH

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Spanish for Transfer

The Associate in Arts in Spanish for Transfer (AA-T) Degree is intended to meet the lower division requirements for Spanish majors (or similar majors) at a California State University that offers a Bachelor's Degree in Spanish.

This degree is designed for students interested in the field of the Spanish language and for students looking to further their understanding of the cultural and linguistic aspects of the language as they apply to the workplace. These courses will provide students with a solid foundation in Spanish language and culture that will be useful either for transferring or using in the workplace.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Spanish:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 21-22.5 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Spanish (or similar majors) at the CSU where they seek transfer.

Required Courses		Units
SPAN 101	Spanish I	4.5
SPAN 102	*Spanish II	4.5
SPAN 201 or	*Spanish III	4.5
SPAN 201H	*Spanish III Honors	4.5
SPAN 202	*Spanish IV	4.5

Choose at least one course (3-4.5 units) from the following list:

FR 101	French I	4.5
FR 102	*French II	4.5
FR 201	*French III	4.5
FR 202	*French IV	4.5
HIST 122	History of Mexico	3
HUM 125 or	Introduction to Mexican Culture	
HUM 125H	*Introduction to Mexican Culture Honors	3
HUM 130	Contemporary Mexican-American Culture	3
LIT 117 or	Mexican Literature in Translation	
LIT 117H	*Mexican Literature in Translation Honors	3
LIT 149	Introduction to Chicano/Chicana Literature	3

If a student is waived out of elementary level Spanish courses from the core, he/she may select courses not taken above or from the following list to meet the minimum 18 units required in the major (per Title 5 regulations):

ART 104	Art of the Ancient Americas	3
ART 108	The Art of Mexico	3
ENGL 126	Languages of the World	3
MUS 129	Music in Latin American Culture	3
SPAN 101S	Spanish for Spanish Speakers I	4.5
SPAN 102S	*Spanish for Spanish Speakers II	4.5

Required Subtotal.....21-22.5

CSU GE or IGETC Pattern Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

TESLA STUDENT AUTOMOTIVE TECHNICIAN (START)

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

This program of study will provide students with in-depth knowledge and skills in Tesla Motors technology. This course is intended to educate the entry-level technician in Tesla Motors technology. Topics will include: safety when working in or around high voltage, maintenance, regeneration braking, inverter power transfer, battery technologies, battery management systems, high-voltage bus and charging, pack connector and penthouse controls, and autonomous technology. Electric vehicle applications and their integrated systems from Tesla Motors will be used to discuss physics of battery storage and material composition and high-voltage generation systems. This course is suitable for students already working in the battery electric vehicle/hybrid vehicle and energy technology field. Completion of this training is required by Tesla for employment as a Level I, Level II, or Level III technician, Mobile Service Technician, or a Field Service Technician.

To acquire the **Certificate of Achievement in Tesla Student Automotive Technician (START)**, it is necessary to complete the following courses:

Required Courses	Units
TESL 100 *Tesla Student Automotive Technician (START)	15
AUTO 290 Cooperative Work Experience/Internship for Automotive Technology Related Fields.....	1

Units Required 16

**Prerequisite*

THEATRE ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN THEATRE ARTS FOR TRANSFER



Associate Degree
for Transfer
*A Degree with a Guarantee.*SM

Associate in Arts in Theatre Arts

The **Associate in Arts in Theatre Arts Degree** is intended to meet the lower division requirements for Theatre Arts majors at a CSU campus that offers a Theatre Arts baccalaureate degree.

This degree is designed for students interested in a range of classes in the theatre arts. Students who earn an AA-T in Theatre Arts demonstrate knowledge and skill in areas including acting, theatre technology, dramaturgy, design (lights, set, costume, and/or make-up), theatre history, and play production. Foundational skills and knowledge of theatre is the springboard for an array of careers including professional actor, theatre critic, theatre director, playwright, set, costume, make-up or light designer, running crew and various film and television jobs.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Theatre Arts:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 18 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education- Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Theatre Arts major at the CSU where they seek transfer.

Required Courses	Units
THTR 101 or	Theatre Arts Appreciation.....3
THTR 105 or	The History & Development of the Theatre3
THTR 105H	*The History & Development of the Theatre Honors3
THTR 110	Principles of Acting.....3
THTR 159 or	Stage Crew Activity (<i>must be taken for 3 units</i>)3
THTR 170	Theatre Rehearsal and Performance.....3

Choose 3 classes totaling 9 units from the following list:

THTR 111	*Principles of Acting.....3
THTR 150	Stagecraft I for Theatre, TV, and Film.....3
THTR 153	Lighting Design and Production for Theatre, TV, and Film3
THTR 174	Costume Design and Production for Theatre, TV, and Film3

If not used in Required Core:

THTR 159 or	Stage Crew Activity (<i>must be taken for 3 units</i>)3
THTR 170	Rehearsal and Performance3

Required Subtotal.....18

CSU GE or IGETC Pattern Varies
Transferable Electives (*as needed to reach 60 transferable units*)

Degree Total 60

*Prerequisite

THEATRE ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Theatre Arts**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
THTR 101 Theatre Arts Appreciation.....	3
THTR 105 or History & Development of the Theatre.....	3
THTR 105H the Theatre (or *Honors)	3
THTR 110 Principles of Acting.....	3
THTR 111 *Principles of Acting.....	3
THTR 150 Stagecraft I for Theatre, TV, and Film.....	3
THTR 151 *Stagecraft II for Theatre, TV, and Film	3
THTR 170 Theatre Rehearsal & Performance	3
THTR 230 *Principles of Directing	3
THTR 231 *Principles of Directing II	3

Units Required 27

**Prerequisite*

WELDING TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses required in this degree compile a comprehensive list of job related skills needed to acquire advanced welding skills. The skills acquired during class will prepare an individual to take and pass the City of Los Angeles Certified Welder Exam, which also aligns with American Welding Society (AWS) standards.

To acquire the **Associate of Science Degree in Welding Technology**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
TCED 060 Elementary Metallurgy	2
WELD 040 Introduction to Welding Processes	2
WELD 045 Basic Electric Arc Welding.....	2
WELD 050 *Semi-Automatic Welding Processes.....	4
WELD 055 *Manual Electric Arc Welding Processes.....	4
WELD 060 Production Welding Techniques	4
WELD 065 *Introduction to Gas Tungsten Arc Welding.....	4
WELD 070 *Advanced Gas Tungsten Arc Welding	4

Select one course from the following:

TCED 090 Blueprint Reading for Industry	2
WELD 075 *Certification Welding I.....	4

Units Required 28-30

* Prerequisite

CERTIFICATE OF ACHIEVEMENT

LADBS Structural Steel Certification Program

The courses required in this certificate compile a comprehensive list of job related skills needed to acquire advanced welding skills. The skills acquired during class will prepare an individual to take and pass the City of Los Angeles Department of Building and Safety (LADBS) Structural Steel Certified Welder Examination and Performance Test, which also aligns with standards and qualifications per the American Welding Society (AWS).

To acquire the **Certificate of Achievement in LADBS Structural Steel Certification Program**, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses	Units
WELD 040 Introduction to Welding Processes	2
WELD 050 *Semi-Automatic Welding Processes.....	4
WELD 055 *Manual Electric Arc Welding Processes.....	4
WELD 075 *Certification Welding I	4
WELD 080 *Certification Welding II.....	3

Units Required 17

*Prerequisite

WELDING TECHNOLOGY/ PIPE WELDING AND FABRICATION

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

The courses required in this certificate compile a comprehensive list of job related skills needed for Pipe Welding and Fabrication. The skills acquired during this program will prepare an individual to take and pass the AWS B2.1 SMAW 6G pipe welding performance exam, which also aligns with standards and qualifications per the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), and American Petroleum Institute (API).

To acquire the **Certificate of Achievement in Pipe Welding and Fabrication**, it is necessary to complete the following courses:

Required Courses	Units
WELD 081 *Pipe Welding – Level 1	4
WELD 082 *Pipe Layout and Fabrication	4
WELD 083 *Pipe Welding II	4
WELD 084 *Pipe Welding – Level III	4
WELD 055 *Manual Electric Arc Welding Processes.....	4
WELD 050 *Semi-Automatic Welding Processes.....	4

Units Required 24

**Prerequisite*

WILDLAND FIRE TECHNOLOGY

DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

This Degree program will provide the student with training in hand crew formation, fire line construction, and the use of wild land equipment. The behavior of fires, protective clothing, and wildland fire tools will also be addressed. The Wildland Fire Technology Associate Degree program is for those students who desire to gain an understanding of Wildland fire investigation, fire prevention and support operations. This program also meets the requirements for the U.S. Forest Service to be hired as an entry-level Wildland firefighter. This degree program will also aid currently employed municipal firefighters with the learning domains and knowledge base to respond to and mitigate a Wildland conflagration.

To acquire the **Associate of Science Degree in Wildland Fire Technology**, students must complete the required major courses below with a grade of “C” or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units
WFT 101 Wildland Fire Behavior	3
WFT 102 Wildland Firefighter Safety and Survival	3
WFT 103 Wildland Fire Operations	3
WFT 104 Wildland Fire Investigation, Prevention, and Public Information.....	3
WFT 105 Wildland Fire Logistics, Finance, and Planning.....	3

Plus a minimum of 9 units selected from the following:

EMT 093 *Emergency Medical Technician	8
FTEC 044 *Physical Fitness and Ability for the Firefighter	3
FTEC 107 Hazardous Materials I.....	3
FTEC 108 *Hazardous Materials II	3
FTEC 121 Emergency Response	3
WFT 077 *Wildland Fire Academy.....	16

Units Required 24-31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Wildland Fire Technology

The Certificate of Achievement in Wildland Fire Technology offers the required courses and learning domains for students to apply for employment with wildland firefighting agencies such as the United States Forest Service; California Department of Forestry; United States Department of the Interior, Bureau of Land Management; National Park Service, as well as municipal fire departments.

To acquire the **Certificate of Achievement in Wildland Fire Technology**, it is necessary to complete the following courses:

Required Courses	Units
WFT 101 Wildland Fire Behavior	3
WFT 102 Wildland Firefighter Safety and Survival	3
WFT 103 Wildland Fire Operations	3
WFT 104 Wildland Fire Investigation, Prevention, and Public Information.....	3
WFT 105 Wildland Fire Logistics, Finance, and Planning.....	3

Plus a minimum of 9 units selected from the following:

EMT 093 *Emergency Medical Technician	8
FTEC 044 *Physical Fitness and Ability for the Firefighter	3
FTEC 107 Hazardous Materials I.....	3
FTEC 108 *Hazardous Materials II	3
FTEC 121 Emergency Response	3
WFT 077 *Wildland Fire Academy.....	16

Units Required 24-31

**Prerequisite*

ALGEBRA I, ALGEBRA II, AND GEOMETRY

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

NONCREDIT CERTIFICATE OF COMPETENCY

ALGEBRA I

The Algebra I Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Algebra I, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Algebra I**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 020 Review of Algebra I Part A	0
NBAS 021 Review of Algebra I Part B	0

Units Required 0

ALGEBRA II

The Algebra II Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Algebra II, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Algebra II**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 024 Review of Algebra II Part A	0
NBAS 025 Review of Algebra II Part B	0

Units Required 0

GEOMETRY

The Geometry Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Geometry, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Geometry**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 018 Review of Geometry Part A	0
NBAS 019 Review of Geometry Part B	0

Units Required 0

B.I.M. AND CADD TECHNOLOGY FOR ARCHITECTURE

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture Noncredit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the Architectural design and drafting fields.

To acquire the **Noncredit Certificate of Completion in B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture**, it is necessary to complete the following courses:

Required Courses

		Units
NVOC 150	AutoCAD for Basic CADD Applications	0
NVOC 170	MicroStation for Basic CADD Applications	0
NVOC 260	Advanced Architecture Using Revit and 3D Software	0
NVOC 261	Revit for Advanced BIM Architectural, Structural and MEP Applications.....	0
NVOC 280	Advanced MicroStation for CADD & BIM Applications.....	0

Units Required 0

CAREER EXPLORATION: GRAPHIC DESIGN

DIVISION OF ARTS AND CULTURAL PROGRAMS

NONCREDIT CERTIFICATE OF COMPLETION

The Graphic Design Noncredit Certificate of Completion is designed to inform and deliver a general understanding to students about the Graphic Design profession. Completion of the sequence of courses will inform students about the profession's general origins, basic processes, and possible academic and career pathways.

To acquire the **Noncredit Certificate of Completion in Career Exploration: Graphic Design**, it is necessary to complete the following courses:

Required Courses		Units
NART 291	Career Exploration: Graphic Design I: History.....	0
NART 292	Career Exploration: Graphic Design II: Process	0
NART 293	Career Exploration: Graphic Design III: Academic Pathways.....	0
NART 294	Career Exploration: Graphic Design IV: Career Paths	0

Units Required 0

CIVIL DRAWING AND PRESSURE PIPING

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The Civil Drawing and Pressure Piping Noncredit Certificate of Completion is intended to improve employability or job placement opportunities in the field of civil engineering and design technology with specialization in Pressure Piping. Completion of the sequence of courses will prepare students for employment, provide for retraining/upgrading and prepare students for enrollment in advanced training programs in Civil Design technology.

To acquire the **Noncredit Certificate of Completion in Civil Drawing and Pressure Piping**, it is necessary to complete the following courses:

Required Courses		Units
NVOC 140	Civil Drafting Fundamentals	0
NVOC 170	MicroStation for Basic CADD Applications.....	0
NVOC 265	Pressure Piping Design.....	0
NVOC 266	Pressure Piping Applications.....	0

Units Required 0

ENGLISH AS A SECOND LANGUAGE

DIVISION OF COMMUNICATIONS AND LANGUAGES

NONCREDIT CERTIFICATE OF COMPLETION

Foundational

Students who complete, in sequence, NESL 001-Beginning I and NESL 015-Beginning II earn the Certificate of Competency in Foundational English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of essential English language skills necessary for short conversations and for reading/writing at the sentence level.

To acquire the **Noncredit Certificate of Competency in Foundational English as a Second Language**, it is necessary to complete the following courses:

Required Courses	Units
NESL 001 ESL Beginning I.....	0
NESL 015 ESL Beginning II.....	0

Units Required 0

Intermediate

Students who complete, in sequence, NESL 016-Intermediate I and NESL 017-Intermediate II, earn the Certificate of Competency in Intermediate English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of English language skills necessary for extended conversations and for reading/writing at the paragraph level.

To acquire the **Noncredit Certificate of Competency in Intermediate English as a Second Language**, it is necessary to complete the following courses:

Required Courses	Units
NESL 016 ESL Intermediate I.....	0
NESL 017 ESL Intermediate II.....	0

Units Required 0

Advanced

Students who complete, in sequence, NESL 017-Intermediate II and NESL 018-Advanced I earn the Certificate of Competency in Advanced English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of essential English language skills necessary for extended conversations in social and professional contexts and for reading/writing at the composition level for personal and academic purposes.

To acquire the **Noncredit Certificate of Competency in Advanced English as a Second Language**, it is necessary to complete the following courses:

Required Courses	Units
NESL 017 ESL Intermediate II.....	0
NESL 018 ESL Advanced I.....	0

Units Required 0

College Preparation

Students who complete, in sequence, NESL 018-Advanced I and NESL 019-Advanced II earn the Certificate of Competency in English as a Second Language for College Preparation. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of English language skills necessary for engaged participation in various academic programs at the college level.

To acquire the **Noncredit Certificate of Competency in English as a Second Language for College Preparation**, it is necessary to complete the following courses:

Required Courses	Units
NESL 018 ESL Advanced I.....	0
NESL 019 ESL Advanced II: College Preparation.....	0

Units Required 0

INTEGRATED MATH

DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

NONCREDIT CERTIFICATE OF COMPLETION

INTEGRATED MATH I

The Integrated Math I Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math I, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Integrated Math I**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 014 Review of Integrated Math I Part A	0
NBAS 015 Review of Integrated Math I Part B	0

Units Required 0

INTEGRATED MATH II

The Integrated Math II Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math II, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Integrated Math II**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 016 Review of Integrated Math II Part A	0
NBAS 017 Review of Integrated Math II Part B	0

Units Required 0

INTEGRATED MATH III

The Integrated Math III Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math III, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Integrated Math III**, it is necessary to complete the following courses:

Required Courses	Units
NBAS 016 Review of Integrated Math III Part A	0
NBAS 017 Review of Integrated Math III Part B	0

Units Required 0

PARAMETRIC MODELING AND CADD TECHNOLOGY FOR MECHANICAL DESIGN

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design Non-credit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the Mechanical design and drafting fields.

To acquire the **Noncredit Certificate of Completion in Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design**, it is necessary to complete the following courses:

Required Courses		Units
NVOC 150	AutoCAD for Basic CADD Applications.....	0
NVOC 200	Intermediate AutoCAD for Design & Production.....	0
NVOC 250	Parametric Modeling 3D Applications	0
NVOC 270	SolidWorks for 3D Modeling and Prototype Applications	0

Units Required 0

REAL ESTATE

DIVISION OF BUSINESS

NONCREDIT CERTIFICATE OF COMPLETION

Real Estate Practice and Finance

Students who successfully complete NBIZ 038 Real Estate Practice and NBIZ 039 Real Estate Finance (in any sequence) earn the Certificate of Completion in Real Estate Practice and Finance. The Certificate, approved by the California Community College Chancellor's Office, indicates a student's qualified fulfillment of the specified education courses required for the California Real Estate Salesperson's License and the California Real Estate Broker License exams, as stipulated by the California Department of Real Estate.

To acquire the **Noncredit Certificate of Completion in Real Estate Practice and Finance**, it is necessary to complete the following courses:

Required Courses		Units
NBIZ 038	Real Estate Practice.....	0
NBIZ 039	Real Estate Finance.....	0

Units Required 0

Real Estate Principles and Appraisal

Students who successfully complete NBIZ 040 Real Estate Principles and NBIZ 041 Real Estate Appraisal (in any sequence) earn the Certificate of Completion in Real Estate Principles and Appraisal. The Certificate, approved by the California Community College Chancellor's Office, indicates a student's qualified fulfillment of the specified education courses required for the California Real Estate Salesperson's License and the California Real Estate Broker License exams, as stipulated by the California Bureau of Real Estate

To acquire the **Noncredit Certificate of Completion in Real Estate Principles and Appraisal**, it is necessary to complete the following courses:

Required Courses		Units
NBIZ 040	Real Estate Principles.....	0
NBIZ 041	Real Estate Appraisal.....	0

Units Required 0

BACHELOR OF SCIENCE DEGREE AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

Admission requirements:

Upper Division Standing

Students interested in pursuing the Bachelor of Science in Automotive Technology must meet the following requirements to be considered to have upper division standing:

- Major courses: 32-35 units of transportation related courses from a designated associate degree course sequence per California Community College Chancellor's Office Taxonomy of Programs (TOP) codes 0948.00. Each course must be completed with a C or higher.
- A minimum of 30 units (45 quarter units) in general education from either the CSU GE or IGETC patterns with a 2.0 cumulative GPA. The 30 units must include the following courses, completed with a C or higher:
 - o Written Communication
 - o Oral Communication
 - o Critical Thinking
 - o Mathematics

Students must complete the CSU GE or IGETC pattern prior to earning the bachelor's degree.

Steps for applying for upper division standing:

- Apply to Rio Hondo College
- Submit a completed supplemental application
- Submit all official transcripts to Admissions and Records (must be delivered from sending institution)

Credit by Exam

The Board of Trustees of Rio Hondo College, in accordance with provisions of Title 5 (55753), authorizes the college to grant appropriate semester unit credit to any student who is currently enrolled and successfully passes an examination administered by appropriate staff. Students may not be enrolled in the course for which they want to challenge and receive Credit by Examination.

The Automotive Technology Department has elected to grant course credit to enable students who can demonstrate proficiency in specific bodies of subject matter, to plan a relevant educational program that will exclude courses in which essential levels of mastery of subject matter material have been previously attained.

Students admitted to the bachelor's degree shall be given Rio Hondo College course credit up to 16 units in lower division and 12 units in upper division automotive technology courses upon the successful completion of examinations (which will not count as units in residence). The student's transcript will denote credit earned by credit by examination.

To challenge a course and receive Credit by Examination a student must be registered in the college and be in good standing. Course(s) must be listed in the college catalog.

Educational Leave

Students enrolled in upper division coursework for the Bachelor of Science in Automotive Technology may request an educational leave for one or two consecutive semesters without having to reapply to the upper division program upon their return. Students will need to reapply to the college if educational leave includes one primary term (fall or spring semester).

To be eligible for an educational leave students must:

- Complete at least one upper division course with a C or higher.
- Be in good academic standing.
- Must complete and submit the appropriate form to Admissions and Records including the reason for the educational leave and the approximate date to resume the upper division course work.

Program Learning Outcomes

Graduates will be technically competent and possess strong interpersonal skills. They will have the ability to communicate effectively, be able to solve problems, work in teams, and will have developed an understanding of the need for continued professional development. The Program Learning Outcomes are grouped into five broad interrelated categories:

1. Specialized Knowledge
 - a. This category addresses what students should demonstrate with respect to the Automotive Technology Industry beyond the vocabularies, theories, and skills of the particular fields of study.
2. Broad and Integrative Knowledge
 - a. This category asks students to consolidate learning from different broad fields of study (e.g., Humanities, Arts, Applied Sciences, and Social Sciences) and to discover and explore concepts and questions that bridge these essential areas of learning.
3. Intellectual Skills
 - a. This category includes both traditional and nontraditional cognitive skills, which include analytic inquiry, use of information resources, engagement with diverse perspectives, ethical reasoning, and quantitative and communicative fluency. All of these emphasize the importance of students making, confronting, and interpreting ideas and arguments from different points of reference (e.g., cultural, technological, and political).
4. Applied and Collaborative Learning
 - a. This category emphasizes what students can do with what they know. Students will be asked to demonstrate their learning by addressing unscripted problems in scholarly inquiry, both at work and in other settings outside the classroom. It also includes research and creative activities involving both individual and group efforts, and may also include practical skills crucial to the application of expertise.
5. Civics and Global Learning
 - a. This category recognizes higher education's responsibilities both to democracy and global community. Students will demonstrate integration of their skills and knowledge by engaging with and responding to civic, social, environmental, and economic challenges at local, state, national, and international levels.

Specific Program Learning Outcome Proficiencies

The following is an overview of the five categories of learning listed above at each level of the Automotive Technology Degree Courses (Lower Division and Upper Division), and defines the basic proficiencies to each area of learning, as well as describing their relationship to one another.

- Specialized Knowledge
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe the scope of the field of study, its core theories and practices, using field-related terminology, and offer a similar description of the field of study per Industry Standards.
 - Students shall apply tools, technologies, and methods to selected questions or problems of the field of study per Industry Standards.
 - Students shall generate substantially error-free products, reconstructions, data, juried exhibits, or performances appropriate to the field of study per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall define and explain the structure, styles, and practices of the field of study using its tools, technologies, methods, and specialized terms per Industry Standards.
 - Students shall investigate a familiar but complex problem in the field of study by assembling, arranging, and reformulating ideas, concepts, designs, and techniques per Industry Standards
 - Students shall frame, clarify, and evaluate complex challenges that bridges the field of study and at least one other related field, using theories, tools, methods, and academics from those fields to produce independently or collaboratively an investigative, creative, or practical work illuminating said challenge per Industry Standards.
 - Students shall construct a summative project, paper, performance, or application that draws on current research, academics, and techniques in the field of study per Industry Standards.
- Broad and Integrative Knowledge
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe how existing knowledge or practice is advanced, tested, and revised in each core field studied, such as disciplinary and interdisciplinary courses in technology, applied sciences, social sciences, and humanities per Industry Standards.
 - Students shall describe a key debate or problem relevant to each core field studied, explain the significance of the debate or problem to the wider society, and show how concepts from the core fields can be used to address the selected debates or problems per Industry Standards.
 - Students shall use recognized methods of each core field studied, including the gathering and evaluation of evidence, in the execution of analytical, practical, or creative tasks per Industry Standards.
 - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology, and explain how the methods of inquiry in these fields can address the challenge and proposes an approach to the problem that draws on these fields per Industry Standards.
 - Students shall produce an investigative, creative, or practical work that draws on specific theories, tools, and methods from at least two core fields of study per Industry Standards.
 - Students shall define and frame a problem important to the major field of study, justify the significance of the challenge or problem in a wider societal context, explain how methods from the primary field of study can be used to address the problem, and develop an approach that draws on both the major and core fields per Industry Standards.
- Intellectual Skills
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall identify and frame a problem or question in selected areas of study and distinguish among elements of ideas, concepts, theories, or practical approaches to the problem or question per Industry Standards.
 - Students shall identify, categorize, evaluate, and cite multiple information resources so as to create projects, papers, or performances in either a specialized field of study or with respect to a general theme within applied science, social science, humanities, or technology per Industry Standards.
 - Students shall describe how knowledge from different cultural perspectives might affect interpretations of prominent problems in politics, society, and global relations per Industry Standards.
 - Students shall describe, explain, and evaluate the sources of his/her own perspective on selected issues in culture, society, politics, or global relations, and compare that perspective with other views per Industry Standards.
 - Students shall describe the ethical issues present in prominent problems in politics, economics, health care, technology, or frameworks that help to inform decision-making with respect to such issues per Industry Standards.
 - Students shall present accurate interpretations of quantitative information on political, economic, health-related, or technological topics and explain how both calculations and symbolic operations are used in those offerings per Industry Standards.
 - Students shall create and explain graphs or other visual depictions of trends, relationships, or changes in status per Industry Standards.
 - Students shall develop and present valid, coherent, and substantially error-free writing

- for communication to general and specialized audiences per Industry Standards.
 - Students shall demonstrate effective interactive communication through discussion by actively listening, constructively responding, and through structured oral presentations to general and specialized audiences per Industry Standards.
 - Students shall negotiate with peers to develop an action plan for a practical task, and communicate the results of the negotiation either orally or in writing per Industry Standards.
- Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall differentiate and evaluate theories and approaches to selected complex problems within the chosen field of study and at least one other field per Industry Standards.
 - Students shall locate, evaluate, incorporate, and properly cite multiple information resources in different media or different languages in projects, papers, or performances per Industry Standards.
 - Students shall generate information through independent or collaborative inquiry and uses that information in a project, paper, or performance per Industry Standards.
 - Students shall construct a written project, laboratory report, exhibit, performance, or community service design expressing an alternate cultural, political, or technological vision, and explain how this vision differs from current realities.
 - Students shall frame a controversy or problem within a field of study in terms of at least two political, cultural, historical, or technological forces, explore and evaluate competing perspectives on the controversy or problem, and presents a reasoned analysis of the issue, either orally or in writing, that demonstrates consideration of the competing views per Industry Standards.
 - Students shall analyze competing claims from a recent discovery, scientific contention, or technical practice with respect to benefits and harms to those affected, articulate the ethical dilemmas inherent in the tension of benefits and harms, and either arrive at a clearly expressed reconciliation of that tension that is informed by ethical principles, or explain why such a reconciliation cannot be accomplished per Industry Standards.
 - Students shall identify and elaborate key ethical issues present in at least one prominent social or cultural problem, articulate the ways in which at least two differing ethical perspectives influence decision making concerning those problems, and develop and defend an approach to productively address the ethical issue per Industry Standards.
 - Students shall translate verbal problems into mathematical algorithms so as to construct valid arguments using accepted symbolic systems of mathematical reasoning, and presents the resulting calculations, estimates, risk analyses, or quantitative evaluations of public information in papers, projects, or multimedia presentations per Industry Standards.
- Students shall construct mathematical expressions where appropriate for issues initially described in non-quantitate terms per Industry Standards.
- Students shall construct sustained, coherent arguments, narratives, or detailed explanations of issues, problems, or technical issues and processes in writing and at least in one other medium to general and specific audiences per Industry Standards.
- Students shall conduct an inquiry concerning information, conditions, technologies, or practices in the field of study that makes substantive use of non-English-language sources per Industry Standards.
- Students shall negotiate with one or more collaborators to advance an oral argument or articulate an approach to resolving a social, personal, or ethical dilemma per Industry Standards.
- Applied and Collaborative Learning
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe in writing at least one case in which knowledge and skills acquired in academic settings may be applied to a field-based challenge, and evaluate the learning gained from the application per Industry Standards.
 - Students shall analyze at least one significant concept or method in the field of study in light of learning outside the classroom per Industry Standards
 - Students shall locate, gather, and organize evidence regarding a question in a field-based venue beyond formal academic study and offer alternate approaches to answering the question per Industry Standards.
 - Students shall demonstrate the exercise of any practical skills crucial to the application of expertise per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall prepare and present a project, paper, exhibit, performance, or other appropriate demonstration linking knowledge or skills acquired in work, community, or research activities with knowledge acquired in one or more fields of study, explain how those elements are structured, and employ appropriate citations to demonstrate the relationship of the product to literature of the field per Industry Standards.
 - Students shall negotiate a strategy for group research or performance, document the strategy so that others may understand it, implement the strategy, and communicate the results per Industry Standards.
 - Student shall write a design, review, or illustrative application for an analysis or case study in an applied scientific, social scientific, technical, or business context per Industry Standards.
 - Student shall complete a substantial project that evaluates a significant question in the field of study, including an analytic narrative

- of the effects of learning outside the classroom on the research or practical skills employed in executing the project per Industry Standards.
- Civics and Global Learning
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe his/her own civic and cultural background, including its origins and development, assumptions, and predispositions per Industry Standards.
 - Students shall describe diverse positions, historical, and contemporary, on selected democratic values or practices, and present his/her own position on a specific problem where one or more of these values or practices are involved per Industry Standards.
 - Students shall provide evidence of participation in a community project through either a spoken or written narrative that identifies the civic issues encountered, and personal insights gained from this experience per Industry Standards.
 - Students shall identify an economic, environmental, or public health challenge spanning countries, continents, or cultures, present evidence for the challenge, and take a position on it per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall explain diverse positions, including those representing different cultural, economic, and geographic interests, on a contested public issue, and evaluate the issue in light of both of those interests and evidence drawn from journalistic and academic publications per Industry Standards.
 - Students shall develop and justify a position on a public issue and relate this position to alternate views held by the public or within the policy environment per Industry Standards.
 - Students shall collaborate with others in developing and implementing an approach to a civic issue, evaluate the strengths and weaknesses of the processes, and describe the results per Industry Standards.
 - Students shall identify a significant issue affecting countries, continents, or cultures, present quantitative evidence of that challenge through tables and graphs, and evaluate the activities of either non-governmental organizations or cooperative inter-governmental initiatives in addressing identified issue(s) per Industry Standards.



BACHELOR OF SCIENCE DEGREE AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

The **Bachelor of Science (B.S.) degree in Automotive Technology** is designed to prepare an individual for a wide variety of technology-based careers in a pathway emphasizing the Automotive Industry.

Graduates with the Bachelor of Science degree in Automotive Technology will find employment in administrative and supervisory positions in automotive industry-related organizations and assume responsibilities in areas of product development, post-production support, customer sales and service support, distribution, and training. Graduates will have the practical skills, technical knowledge, and organizational competencies required of mid-level management personnel.

The courses will enhance the student's level of technical competency, computer, math, and science skills, effective communication and interpersonal skills, substantiate workplace and social ethics, the ability to work in teams, and to continue to pursue professional development and lifelong learning.

Required Courses - Both Pathways		Units
AUTO 300	*Assessment of the Automotive Industry	3
AUTO 310	*The Global Development and Advancement of the Automobile.....	3
AUTO 320	*The Progressive Growth of Automotive Technology.....	3

Technical Pathway

Required Courses	Units
AUTO 340 *Analyzing Vehicle Electrical/ Electronic Systems	3
AUTO 360 *Analyzing Vehicle Fuels, Lubricants, and Combustion.....	3
AUTO 400 *Analyzing Vehicle Stability, Dynamics, and NVH	3
AUTO 420 *Analyzing Dynamic Functions of Vehicle Drivetrain Systems.....	3
AUTO 440 *Analyzing Vehicle Safety, Comfort, and Security Systems	3
AUTO 499 *Directed Study in Automotive Technology	4

Total Units Required 28

*Prerequisite

Business & Marketing Pathway

Required Courses	Units
AUTO 350 *Principles of Automotive Service Management	3
AUTO 370 *Standard Accounting Systems of the Automotive Industry.....	3
AUTO 410 *Digital Marketing for the Automotive Industry.....	3
AUTO 430 *Finance & Insurance Regulations for the Automotive Industry	3
AUTO 450 *Variable & Fixed Operations of the Automotive Industry.....	3
AUTO 499 *Directed Study in Automotive Technology	4

Total Units Required 28

*Prerequisite

REQUIRED COURSES - BOTH PATHWAYS

AUTO 300

Assessment of the Automotive Industry

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160

This course provides the Automotive Technology student with a detailed practical study of how to be successful in the Automotive Service, Parts, and Sales Industry. This is a practical study of current service, parts, and sales practices performed in dealerships and independent repair shops, while also discussing the review and preparation of the theory and skills necessary to successfully pass the Automotive Service Excellence (ASE) Exams relevant to Industry Standards. Topics include becoming efficient in the shop, mastering the various pay systems, understanding managers and owners, building customer loyalty, demonstrating workplace and social ethics, and making Customer Satisfaction Index (CSI) values work for all employees. In addition, vehicle engines, transmissions, brakes, suspension, air conditioning, and engine performance systems, parts, and components, and new and emerging technologies that support the service and repair of the modern automobile will be discussed. Emphasis will be placed upon the important tasks of proper repair procedures, the safe use of tools, equipment, technical data, and scan tools, as well as the ins-and-outs of the business of service, parts, and sales. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 310

The Global Development and Advancement of the Automobile

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160

This course provides the Automotive Technology student with a detailed practical study of the development of the Automobile from its beginnings to the present day. This is a practical study of the invention of the first suitable power source to be adopted to self-propel a road vehicle and how it resulted in a major paradigm shift to revolutionize transportation and the ability of individual mobility. Topics include the development of animal-drawn transportation devices and the quest for a prime mover, the pioneering era of the automobile and how it lead to it being an industrial product, mass-production of the automobile and how it became a consumer product, and new and emerging technologies that support the automobile and motorized traffic and transportation systems. Emphasis will be placed upon the global perspective, particularly the developments that occurred in the United States, Europe, and Asia, and the numerous technological and business revolutions of the first and second half of the 20th century. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle-After Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 320

The Progressive Growth of Automotive Technology

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160

This course provides the Automotive Technology student with a detailed practical study of the development of Automotive Technology from its beginnings to the present day, focusing on the basics and its long-term development. This is a practical and contextualized study of the importance of the automotive technological changes that have evolved from both engineering improvements and cultural changes. Topics include the development of vehicle layout and design, the needs and behaviors of drivers, producers, non-users, and other stakeholders, and the ever-changing computerized control of its systems and other emerging technologies. Emphasis will be placed upon the systematic overview of the mechanization and electrification of the automobile, not only as machines, but as a testimony of their important role in the way we live today. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

CHOOSE ONE PATHWAY

Technical Pathway

AUTO 340

Analyzing Vehicle Electrical/Electronic Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120
Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Electrical and Electronic Systems of the Modern Automobile. This is a practical study of computerized vehicle controls and diagnostic strategies as it pertains to the function, operation, and vehicle on-board diagnostic and communication systems of the engine, powertrain, brakes, suspension, safety, convenience, and emission control systems. Topics include emerging technologies, such as modern instrumentation, navigation, and telematics, and the use of vehicle network configuration systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including programmed microprocessors, microcontrollers, and computer-language protocol. Current Industry-approved diagnostic, troubleshooting, and reprogramming techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 360

Analyzing Vehicle Fuels, Lubricants and Combustion

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Fuels, Lubricants, and Combustion of the Modern Automobile. This is a realistic study of the physical and chemical properties of fuels, lubricants, and combustion, including diagnostic strategies as it pertains to the function, operation, and every-day use of the systems and sub-systems of the automotive internal combustion engine and related powertrain components. Topics include emerging technologies, such as modern fuel and lubricant requirements and how they affect combustion, emissions, and maintenance schedules used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including failure analysis. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 400

Analyzing Stability, Dynamics, and NVH

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Stability, Dynamics, and Noise-Vibration-Harshness (NVH) of the Modern Automobile. This is a practical study of the systems that provide vehicle operation safety, including diagnostic strategies as it pertains to the function, operation, and every-day use of the automotive tires, brakes, steering, and suspension systems. Topics include emerging technologies, such as modern antilock brakes, traction control, electronic stability assist, electronic power steering, active suspension, and tire construction and pressure monitoring systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing NVH. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 420

Analyzing Dynamic Functions of Vehicle Drivetrain Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120

Advisory: ENGL 325 This course provides the Automotive Technology student with a detailed practical application of Electro-Mechanical and Hydraulic Functions of Transmission and Drivetrain Systems of the Modern Automobile.

This is a practical study of the systems that provide vehicle mobility, including diagnostic strategies as it pertains to the function, operation, and every-day use of the automotive transmission, differential, and drive axle systems. Topics include emerging technologies, such as modern dual-clutch transmissions, continuously-variable transmissions, real-time gear shifting mechanisms and controls, torque convertor and convertor clutch designs, torque-management strategies, and innovative designs of gears, bearings, seals, and friction materials used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing Noise-Vibration-Harshness (NVH). Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 440

Analyzing Vehicle Safety, Comfort, and Security Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Vehicle Occupant Protection, Comfort, and Security Systems of the Modern Automobile. This is a practical study of the systems that provide integrated vehicle and driving protection against hazardous and inadvertent situations, as well as occupant amenities, including diagnostic strategies as it pertains to the function, operation, and every-day use of active/passive safety, comfort, and convenience systems. Topics include emerging technologies, such as modern airbag systems, accident avoidance and pre-crash/post-crash mitigation of injuries, vehicle-to-vehicle (V2V) infrastructure technology, and innovative driver assistance, infotainment, and occupant contentment and security systems used by late-model automotive manufacturers.

Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing vehicle crashes and improving occupant/pedestrian protection. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 499

Directed Study in Automotive Technology

Prerequisite: Enrollment requires an AS Degree in Automotive Technology or similar field, and special approval from the program advisor; AUTO 440; AUTO 450

Advisory: ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, or MATH 160, PHY 120

The course provides an opportunity for the Automotive Technology student to expand their studies in the Bachelor of Science Degree beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students are required to take 4 units of Directed Study within a discipline to graduate with a Bachelor of Science degree in Automotive Technology.

4 Units

72 Lecture hours

Business & Marketing Pathway

AUTO 350

Principles of Automotive Service Management

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MGMT 146

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical study of the management of an automotive and/or transportation-related business. This is a practical and contextualized study of the importance of business practices of the automotive industry that have evolved from dealerships, franchises, and independently-owned service operations. Topics include an understanding of automotive business regulations in the areas of competition, labor laws, securities regulation, consumer protection, and environmental laws. Emphasis will be placed upon an overview of basic business structure, ownership, and various facilities, as well as service operations & management, financial & marketing issues, and customer/employee relations. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 370

Standard Accounting Systems of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, ACCT 101

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of accounting fundamentals and business management principles, and the adaptation of them to factory-to-store and day-to-day operations. This is a practical study of the theory, principles, and practice of the preparation and interpretation of accounting statements and business management reports. Topics include an overview of computerized accounting information systems, and practices in business management techniques, such as the importance of strong financial and management control, financial statements and statement analysis. Emphasis will be placed upon the concepts of using accounting fundamental principles, cash & contracts, short-term and long-term liabilities and assets, and stockholders' equity of reporting documents, which are essential to a successful automotive business operation. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 410

Digital Marketing for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MRKT 170

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the various internet and social media marketing strategies, including category-based guidelines impacting the operations of the automotive wholesale and retail business. This is a practical study of the policies and practices of digital marketing, and the necessary tools, templates, and checklists needed to develop a strategic and successful marketing campaign. Topics include in-sourcing and out-sourcing, responsive and adaptive website technologies, developing content, and policies and processes. Emphasis will be placed upon the use of on-line and off-line media to increase customer satisfaction, including the preparation of business management and marketing reports. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 430

Finance & Insurance Regulations for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the numerous federal, state, and local agencies and their laws and regulations pertaining to the operation of an automotive wholesale and retail business. This is a practical study of a broad scope of regulatory agencies and regulations such as Department of Motor Vehicles, Internal Revenue Service, Franchise Tax Board, OSHA, EPA, AQMD, NHTSA, Federal Trade Commission, Fair Labor Standards, Truth in Advertising, Truth in Lending, Consumer Leasing Act, Equal Credit Opportunity Act, Fair Credit Reporting Act, and other related agencies and regulations. Topics include an in-depth

study of automotive business finance, insurance, and new and certified used vehicle departments within an organization. Emphasis will be placed upon the services offered in these departments and their potential of generating profits and improving customer satisfaction. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 450

Variable & Fixed Operations of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of successful automotive business models of new and used vehicle operations, as well as the operations of service and parts. Topics include an in-depth study of facilities and shop utilization, scheduling of work, sales promotions, using advertising media, inventory control, repair order generation and control, selecting and motivating employees, and directing sales, parts and service staff. Emphasis will be placed upon maximizing and balancing inventory turnaround, wholesale practices, trade-in appraising, vehicle reconditioning, the role that auctions play, the important relationship between the parts and service departments, technician productivity and efficiency, wholesale and retail parts sales, stock and non-stock parts inventory and ordering practices, and part phase-in/phase-out criteria. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 499

Directed Study in Automotive Technology

Prerequisite: Enrollment requires an AS Degree in Automotive Technology or similar field, and special approval from the program advisor; AUTO 440; AUTO 450

Advisory: ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, or MATH 160, PHY 120

The course provides an opportunity for the Automotive Technology student to expand their studies in the Bachelor of Science Degree beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students are required to take 4 units of Directed Study within a discipline to graduate with a Bachelor of Science degree in Automotive Technology.

4 Units

72 Lecture hours

