HARTNELL COLLEGE DEGREES AND CERTIFICATES

Program	Associate Certificate	Program	Associate Certificate
Addiction Studies	AA	English for Multilingual Speakers	
Administration of Justice for Transfer	AS-T	Beginning	
Administration of Justice	AS	Low Intermediate	
Advanced Automotive Technology	AS	Intermediate	
Advanced Diesel Technology	AS	High Intermediate	
Agriculture Business for Transfer	AS-T	Advanced	
Agriculture Plant Science for Transfer	AS-T	Engineering	AS
Agricultural Mechatronics	AS	Engineering Fundamentals	
Foundations of Agricultural Mechatronics		English for Transfer	AA-T
Agriculture with an Emphasis	AA	Environmental Science for Transfer	AS-T
Business Emphasis		Film, Television, and Electronic Media	AS-T
Production Emphasis		First Line Supervisor	
Food Safety		General Studies: Arts and Humanities	AA
Small Farm		General Studies: Social and Behavioral Sciences	AA
Sustainable Crop Management		General Studies: STEM	AA
Astronomy	AS	Geology for Transfer	AS-T
Basic English		High School Equivalency	
Biology for Transfer	AS-T	History for Transfer	AA-T
Biology	AS	Kinesiology for Transfer	AA-T
Business Administration 2.0 for Transfer	AS-T	Kinesiology	AS
Business office Technology:		Intersegmental General Education Transfer (IGETC)	
Bookkeeping		Law, Public Policy and Society for Transfer	AA-T
Business Information Worker Level 1		Liberal Arts: Pathway to Health Sciences	AA
Business Information Worker Level 2		Mathematics for Transfer	AS-T
Information Processing	AS	Music for Transfer	AA-T
Chemistry for Transfer	AS-T	Music	AA
Chicanx Studies	AA	Nursing:	
Communication Studies 2.0 for Transfer	AA-T	Registered Nursing	AS
Computer Science for Transfer	AS-T	Vocational Nursing	AS
Computer Science and Information Systems:		Photography	AA
Computer Science Option	AS	Physics for Transfer	AS-T
Cisco Certified Network Associate		Political.R0ciencePhysics for Transfer	

ADDICTION STUDIES (AA.ADD)

ASSOCIATE OF ARTS

Required Major Courses (31 units)

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ADDICTION STUDIES (CT.ADD)

CERTIFICATE OF ACHIEVEMENT

Required Major Courses (27 units)

ADMINISTRATION OF JUSTICE

PROGRAMS

- f Associate in Science for Transfer (ATS).
- f Associateof Science (A.S.)
- f Certificate of Achievement

DESCRIPTION

The Associate in Science Degree in Administration of Justice Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate Administration of Justice, Criminal Justice, or Criminology degree programs at a California State University (CSU) campus. This degree provides the

ASSOCIATE IN SCIENCE FOR TRANSFER

Program OutcomesUpon successful completion of this provestor of the provest of t	•
RequiredMajor Courses€ units)	
F ADJ1 – Introduction to Administration of Justice	
F ADJ3 – Concepts of Criminal Law	3.0
Major ElectivesA (Complete6 units) F ADJ2-Community Relations & the Justice Syst F ADJ4-Criminal Evidence F ADJ5-Criminal Court Process F ADJ8-Criminal Investigation F ADJ10-Juvenile Procedure	aem0 3.0 3.0 3.0 3.0 3.0
Major Electives (Complete6 units) F ADJ10 – Juvenile Procedures	3.0
F ADJ51-Criminology	3.0
F MAT-13-Elementary Statistics	40 30
 F SOC1 –Introduction to Sociology F PSY-2-General Psychology 	30
	SUBIOTAL: 18 UNITS
General Education Required Courses Students must complete one of the following General E CSUGE (seepage78) 39 units IGET (see pag 80) 37 units	Education Plans:

Students can doubleount required courses and courses for General Education

Electives (Courses Numbered 99) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS

ADMINISTRATION OF JUSTICE (AS.ADJ)

ASSOCIATO SCIENCE

Criminal Justice	Complete3 courses from ADJ8, ADJ-10, ADJ-80, ADJ-83, ADJ-51
Paralegal/Legal Assistant	Complete AD25, AD34, and AD36; complete as a general elective BUSLegal Environment of Business

Require	edMajor Courses (21 units)	
F	ADJ-1 -Introduction to Administration of Justice	3.0
F	ADJ-2 -Community Relations & the Justice System	3.0
F	ADJ-3 -Concepts of Criminal Law	3.0
F	ADJ-4 -Criminal Evidence	3.0
F	ADJ-5 -Criminal Court Process	3.0
F	ADJ-11 Law EnforcemenReport Writing	3.0
F	ADJ21A–Narcotics and Dangerous Drugs	3.0
Major E	Electives (Complete 9 units)	
F	ADJ-8 -Criminal Investigation	3.0
F	ADJ-10 Juvenile Procedures	3.0
F	ADJ-25 -Introduction to Paralegal/Legal Assistantship	3.0
F	ADJ-30 -Sexual Assault Invegation	3.0
F	ADJ-33 Constitutional Law for Criminal Justice	3.0
F	ADJ-34 - Civil Litigation	3.0
F	ADJ-36 Legal Research and Writing	3.0
F	ADJ-51 -Criminology	3.0
F	ADJ-102 PC 832 Arrest and Firearms	3.5

SUBTOTAL: 30 UNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

HCCD G(see page 76)

 ${\bf F}$ English composition ${\bf F}$ Oral communication and Critical thinking

F Mathematical Concepts and Quantitative Reasoning

F Arts and Humanities

F Social and Behavioral Sciences

F Physical and Biological Sciences

F Ethnic Studies

F Lifelong Learning and Self Development

ADMINISTRATION OF JUSTICE (CT.ADJ)

CERTIFICA **DF** ACHIEVEMENT

RequiredMajor Courses 2(1 units)

PROGRAM

f Associateof Science (A.S.)

DESCRIPTION

The Advanced Automotive Technology Program is designed provide students with the skills and knowledge necessary to succeed as technicians in a professional auto repair shop. The curriculum provides classroom and hands learning experience in a state-of the-art laboratory which provides students with the opportunity to apply the basic theories of automote technolog. Diagnosis and repair procedures performed on vehicles enable students to deve op the skill levels required for placement in the automotive technology industry. Additionally, the program also offers Sr@p certifications that are industry reognized.

LEADS TO CAREER OPPORIES NOT AS:

- f Automotive Mechanic
- f Diesel Service Technician
- f Shop Foreman
- f Small Engine Mechanic
- f Tractor Engine Mechanic
- f Transmission Specialist
- f Truck Technician

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

ADVANCED AUTOMOTIVE TECHNOM(AS.AAT)

ASSOCIATE OF SCIENCE

RequiredMajor Courses **4**4 units)

F	AAT100–Introduction to Automotive Repair	4.0
F	AAT101–Engine Rebuild	4.0
F	AAT110-Climate Control	4.0
F	AAT120-Electrical and Electronic Systems	4.0

F AAT121-

ADVANCEDIESETECHNOLOGY

ADVANCEDIESETECHNOOGY(ASADT)

ASSOCIATE OF SCIENCE

Requi	redMajor Courses44 units)	
F	ADT-100-Diesel Engine Technology	4.0
F	ADT-101– DieseEngine Rebuild	4.0
F	ADT-110-Electrical and Electronic Systems	4.0
F	ADT-111 – Electrical Systems and Controls	4.0
F	ADT-120 Climate Control	4.0
F	ADT-21 – Preventative Maintenance	4.0
F	ADT130 –Brake Systems	4.0
F	ADT131 –Steering and Suspension Systems	4.0
F	ADT140-Power Drivetrain	4.0
F	ADT141–Automatic Transmissions	4.0
F	BUS43-Business Ind Systems and Info Literacy	4.0
	OU03 (at)3.0.1 (n)2.A.1 (n)6 49 >>BDC /TT0 752	2(o)-3 (Sy)-0.6 (n)w 1.268 0 Td ()Tj EMC /P <

n)-0 (n90 278.j -TmC[(H226)3 TC3 -)Tj C3 -pensio- -03Tc 0.001 T2.7 (e)(uuun

PROGRAMS

- f Associate of Science Degree
- f Certificate of Achievement

DESCRIPTION

The Associate's Degree in **Aig**ultural Mechatronics will prepare students to work as a skilled mechatronics technician in agriculture. Students will learn how to installepair, calibrate, and troubleshoot mechatronics or electromechanicaystems, including automation and robotics equipment focusing on indoor value- added food processing. Students will have the opportunity to earn third-party industry certifications from OSHA, NCCER, and NC3 (Festo, Snap-On, Starrett, Greenlee, Rigid, Trane, Lincoln, 3M, and more). Additionally, students may have transfer opportunities to pursue an undergraduate degree in Ag Systems Management

The Foundations of Agricultant Mechatronics Certificate of Achievement will introduce fundamental theory and skills used to perform the tasks of a skilled maintenance mechanic who works with mechatronics, or electro-mechanical systems, including automation and robotics equipment in both indoor value- added food processing and outdoor automated farming and harvesting. Students will have the opportunity to earn third-paty industry certifications from OSHA, NCCER, and NC3 (Festo, Snap-On, Starrett, Greenlee, Rigid Trane, Lincoln, 3M, and more). Students will also be prepared to pursue the Agricultural Mechatronics Associates Degree.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- x Industrial Machinery Mechanics
- x Electro-Mechanical Technician
- x Robotics Technician

FOUNDATION OF AGRICULTURAL MECHATRONICS (CT.MECHA)

CERTIFICATE OF ACHIEVEMENT

Required Major Courses (10 units)

F MFGT-110, Industrial Safety

- 2.0
- F MFGT-111A, Fundamentals of Agricultural Mechatronics A 2.0
- F MFGT-111B, Fundamentals of Agricultural Mechatronics B 2.0
- F MFGT-112A, Intermediate Agritural Mechatronics A 2.0
- F MFGT-112B, Intermediate Agrittural Mechatronics B 2.0

Major Electives: Select 2 courses (Complete 6 u()Tj

F

AGRICULTURE BUSINESS

PROGRAM

AGRICULTURE BUSINESS TRANSFERST.AGR

ASSOCIATE IN SCIENCE FOR TRANSFER

Required Major Courses (3 units)

F ABT90-Soil Science	3.0
F ABT53 – Agribusiness Economics	3.0
F ECO1 – Principles of Macroeconomics	3.0
F MAT-13–Elementary Statistics	4.0
Major Electives Complete 94 Bits)	
F ABT49–Introduction Agriculture Business	3.0

- F ABT49–Introduction Agriculture Business
- F ABT52 Sales & Service in Agribusiness 3.0
- F ABF

AGRICULTURE PUASSICIENCE

PROGRAM

f Associate in Science for Transfer (ATS).

DESCRIPTION

The Associate in Science in Agriculture Plant Science for Tra degree aligns with the CSU Bachelor of Science in Plant Science. The Associate in Science in Agriculture Plant Science for Transfer degree is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Plant Science. For detailed requirements for individual four-year institutions students should contact thetransfer institution and meet with a counselor for specific transfer course requirements in their major.

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and

LEADS TO CAREER OPPORIES NOT AS:

- f Agronomist
- f Biotechnologist
- f Field Advisor
- f Greenhouse Manager
- f Soil Scientist

AGRICULTURE PLASSICIENCEOR TRANSFEARST.APS)

AGRICULTURE WITH AN AREA OF EMPHASIS

PROGRAMS

- f Associateof Science (A.S.)
- f Certificates of Achievement

DESCRIPTION

The Associate of Science degree in Agriculture is intended students interested in a wide range of career and educational pathways. Those who are interested in farm management, harvest operations, agriculture research, and other areas of production agriculture would benefit from this degree. Several areas of emphasis

AGRICULTURE WITH AN AREA OF EMP(#ASSAS RI

ASSOCIATE OF SCIENCE

RequiredMajor Courses Complete ALI(13-16units)

00.1		
F	ABT58 –Agriculture Laws and Regulations	3.0
F	ABT90 – Soil Science	3.0
F	ABT92 –Plant Science	3.0
F	ABT99 –Occupational Cooperative Work Experience (3 units recommended)	1.0-3.0
F	ABT57 –Agriculture Computer Applications OR	3.0
	BUS43 –Business Information Systems and Information Literacy OR	4.0
	BUS50 –Introduction to PC Applications	4.0

Required Major CoursesCompleteONEAREA OF EMPHASIS

AGRICULTURE BUSINESS

The Agriculture Business Emphasis is intended for students interested in entrepreneurship, or as a foundation for transfer to a four-year college or university to pursue a higher degree in agriculture base or related field.

- F AGRICULTURE BUSIN(23816 units)
 - o Complete:ABT49, and AB-63, and AB-7110
 - o Complete 2 coursesABT

HORTICULTURE TECHNICIAN

CERTIFICA **DF** ACHIEVEMENT

Required Major Courses (224 units)

F	ABT110-Careers in Agriculture and Technology	2.0
F	ABT49-Introduction to Agriculture Business	3.0
F	ABT54 – Agriculture Marketing	3.0
F	ABT58-Agriculture Laws & Regulations	3.0
F	ABT90–Soil Science	3.0
F	ABT92-Plant Science	3.0
F	ABT99-Cooperative WorkExperience	1.0-3.0
F	ABT57 – Agriculture Computer Applications	3.0
	OR	
	BUS43-Business Info Systems and Info Literacy	41].710(dB

4**1,710(bb)T-920(c) 64.127(b)071.00/371:1**01/TTw 15.8560 Td () Tj-005

CERTIFICATE OF ACHIEVEMENT

Required Major Courses (15-18 units)		
F ABT-110 – Careers in Agriculture and Technology	2.0	
F ABT-58 – Agriculture Laws and Regulations	3.0	
F ABT-90 – Soil Science	3.0	
F ABT-92 – Plant Science	3.0	
F ABT-99 – Cooperative Work Experience	1.0-3.0	
F ABT-57 – Agriculture Computer Applications OR	3.0	
BUS-43 – Business Information Systems and Info Literacy OR	4.0	
BUS-50 – Introduction to PC Applications	4.0	
Major A Electives (Complete 6 units)		
F ABT-91 – Irrigation Praces and Materials	3.0	
F ABT-95 – Introduction to Small Fruit Science	3.0	
F ABT-96 – Vegetable Crop Production	3.0	
F ABT-97 – Vineyard Production & Management	3.0	
F ABT-98 – Fertilizers & Plant Nutrition	3.0	
Major B Electives (Complete 6 units) F ABT-41 – Pe		

CERTIFICA **DF** ACHIEVEMENT

FINANCIAL AID

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RequiredMa	jor Courses (2 units)	
F ABT	58–Agriculture Laws and Regulations	3.0
F ABT	130–Introduction to Food Safety	1.5
F ABT	131–Agricultural Practes for Food Safety	1.5
F ABT	132–Food SafetManagement	1.5
F ABT	133– FacilityManagementfor Food Safety	1.5
F ABT	134–Environmental Effects on Food Borne	1.5
F ABT	135–Introduction to Food Microbiology	1.5
		4000

TOTAL: 12JNITS

SMALL FARM (CT.AGSF)

CERTIFICA **DF** ACHIEVEMENT

The Small FarnOperation and Management Certificate is intended for students interested in becon entrepreneurs in the area of crop production. Students will learn the foundation skills for farming agriculture business from the ground up. Students will learn in an actual small farm production environment with a focus on organic production systems. Students may use this emphasis as a foundation to stat their own business or obtain skills and knowledge to work in industry. This certificate contains all the required major coursework for an AS in Agriculture with an Emphasis in Agriculture Small Farm Operation Management. Several courses in the Small Farm Operation and Management emphasis ared are the ALBA Facility, 1700 Old Stage Road, Salinas.

Program OutcomesUpon successful completion of this programstadent will be able to:

- *f* demonstrate problemolving techniques and critical thinking skills while engaged in a crop production environment.
- *f* prepare and deliver business documents and use math skills in an appropriate form, format, and language essential for career success in a crop production setting.
- *f* prepare a detailed business and marketing plan for an entrepreneurial agricultural business.
- f distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
 f demonstrate professional and personal development of work habits and safety practices
- Required Major Courses (227 units) F ABT58 – Agriculture Laws and Regulations 3.0 F ABT90 - Soil Science 3.0 F ABT92 - Plant Science 3.0 F ABT94 – Agriculture Enterprise Project 2.0 F ABT99 – Cooperative Work Experience 1.0-3.0 F ABT57 – Agriculture Computer Applications 3.4 OR BUS43-Business Information Systems and Information Literacy OR BUS50 - Introduction PC Applications F ABT101 – Organic Vegetable Production 1.5 F ABT102- Organic Field Production Methods 1.5 F ABT103-Agriculture Whole Farm Planning and Recordkeeping for Small Farms F ABF104– Agriculture Business Development for New Organic Farmers 1.5 F ABT105- Marketing Opportunities and Growth for Organiarn Fing 1.5 F ABT130- Introduction to Food Safety 1.5 Restricted Major Electives, Group & (units - Select two courses) F ABT95 – Introduction to Small Fruit Science 3.0 F ABT96 – Vegetable Crop Production 3.0 F ABT97 – Vineyard Production and Management 3.0 F ABT98 – Fertilizers and Plant Nutrition 3.0 Restricted Major Electives, Group B (Complete 3 units) F ABT41 – PesticideApplicator Certification Training 3.0 F MFGT70 – Introductionto Mechanized Agriculture 3.0 F MFGT71 – Agriculturaland Industrial Equipment Operation 3.0 F MFGT75 – AgriculturaMachinery Management 3.0 F ABT80 – Introduction to Sustainable Agriculture and Food 3.0 F ABT81 – Integrated Pest Management Principles in Entomology 3.0 F ABT82 – Integrated Pest Management Principles in Weed Science 3.0 F ABT83 – Integrated Pest Management Principles in Plant Pathology 3.0 F ABT93 – Product Processing & Cooling 3.0 F ABT160-Introduction to Agriculture 3.0 F ABF131 – Agricultural Practices for Food Safety 1.5
 - F ABT135- htroduction to Food Microbiology

FINANCIAL AID

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https://www.hartnell.edu/stud ents/fa/net-pricecalculator.html

TOTAL33-36 UNITS

1.5

CERTIFICA **OF** ACHIEVEMENT

FINANCIAL AID

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https://www.hartnell.edu/stud

Require	d Major Course 2(-22units)	
F	ABT58 –Agriculture Laws and Regulations	3.0
F	ABT80 –Introduction to Sustainable Agriculture and Food	3.0
F	ABT83 –Integrated Pest Management Principles in Plant Path	୦ାଡିୟା
F	ABT90 –Soil Science	3.0
F	ABT92 –Plant Science	3.0
F	ABT99 – Cooperative Work Experience	1.0-3.0
F	ABT57 – Agriculture Computer Applications	3-4
	OR	
	BUS43 – Business Information Systems and Information Litera	су
	OR	
	BUS50 –Introduction PC Applications	

Restricted Major Electives (Complete 6 units)

All restricted Major Electives courses are recognized by the California Department of Pesticide Regulation as qualifying toward a California state Pest Control Advisers (PCA) license.

- F ABT81 –Integrated Pest Management Principles in Entomology 3.0
- F ABT82 –Integrated Pest Management Principles in Weed Science
- F ABT93 Product Processing & Cooling 3.0 F ABT95 –Introduction to Small Fruit Science 3.0 F ABT96 – Vegetable Crop Production 3.0 F ABT97 – Vineyard Production and Management 3.0 F ABT98 – Fertilizers and Plant Nutrition 3.0 F ABT160 –Introduction to Agriculture 3.0 F ABT101 – Organic Vegetable Production 1.5 F ABT102 – Organic Field Production Methods 1.5 F MFGT70 –Introduction to Mechanized Agriculture 3.0

ASTRONOMY

PROGRAM

Associate of Science (A.S.)

DESCRIPTION	TRANSFER PREPARATION
	TRANSFER RESOURCES
	FINANCIAL AID
LEADS TO CAREER OPPORTUNITIES SUCH AS:	

ASTRONOMY (AS.AST)

ASSOCIATE OF SCIENCE

Required Major Courses (34 units)

F

F

F

F

F

F

F

F

- F
- F

Major Electives (Complete 1 course - 4-5 units)

F F

F

SUBTOTAL: 38-39 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) F F BASIC COMPUTER LITERACY

PROGRAM

fn 0 Tw 4.45 0 Td2.41

BIOLOGY

PROGRAMS

- f Associate in Science for Transfer (ATS).
- f Associateof Science (A.S.)

DESCRIPTION

The Biology program offers degrees that are intended to cre interest and enrichment through the study of living organisms and the basic biological principles. The major courses provide a strong background in the biological sciences for students tramisferto four-year institutions who are intestnet he s30.6 ((t)0aa

BIOLOGY FOR TRANS(ASTBIO)

ASSOCIATE IN SCIENCE FOR TRANSFER

RequiredMajor

ASSOCIATE OF SCIENCE

Program OutcomesUpon successful completion of the bogram a student will be able to:

- f apply the scientific methods problem solving, devising a researchingland evaluating data and findings.
- *f* describe the structure and function of biological molecules, cettscarganelles, and tissues and organ systems of plants and animals.
- f apply the principles of heredity at the **nec**ular, cellular, and organismal levels.
- f explain the mechanism and evidence of blution through natural selection.
- f apply taxonomic principles to the classification of organisms.
- f describe the flow of energy withiorganisms and within ecosystems.

Required Major Courses (33 units)

F BIO-1 – Fundamental Bioglical Concepts	5.0
F BIO-2 – General Zoology	5.0
F BIO-3 – General Botany	5.0
F CHM-1A – General Chemistry I	5.0
F CHM-1B – General Chemistry II	5.0
F MAT-13 – Elementary Statistics	4.0
F MAT-25 – Pre-Calculus	4.0
Major Electives (Select 1 series 8-12 units)	
F PHY-2A/2B – College Physics I & II	8.0
F PHY-4A/4B/4C – General Physics I, II, III	12.0
Recommended Major Electives (None Required)	
F CHM-12A – Organic Chemistry I	5.0
F CHM-12B – Organic Chemistry II	5.0
F MAT-3A – Analytic Geometry and Calculus I	4.0
F MAT-3B – Analytic Geometry and Calculus II	4.0
F MAT-3C – Analytic Geometry and Calculus III	4.0

SUBTOTAL: 41-45 UNITS

 General Education – Required Courses

 Students must complete one of the following General Education Plans:

 CSU-GE see page 78)
 39 units

 IGET (see page 80)
 37 units

 Students can double-count required courses and courses for General Education

 Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.

TOTAL: 62-66 UNITS

PROGRAM

f Associate in Science for Transfer (ATS).

DESCRIPTION

The Associate in Science in Business Administration for Transfer degree (AST in Business Administration) is designed to provide students a clear transfer pathway to the CSU business administration major and completion of the business administration baccalaureate degree, to grant guarantee admission to a CSU to a similar major with junior standing, and the ability to complete their remainir requirements within60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administrations will be able to analyze and interpret business scenarios using quantitative and logical reasoning to evaluate and solve business problems. Business Administration majors will be able to communic economic effects, effectively convey financial formation, and explain social, political and ethical implications of business decision making

LEADS TO CAREER OPPORIES STUCH AS:

- f Accounting
- f Chief Executive
- f Cost Estimator
- f Customer Service Management
- f Entrepreneur/Business Owner
- f Financial Planner/Advisor
- f General & Operations Manager
- f Human Resources
- f Insurance
- f Marketing
- f Sales Manager
- f Social/Community Service Magner
- f Supply Chain Manager

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differfrom those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER ROBSRCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

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https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

BUSINESS ADMINISTRATION AST.BUS2)

PROGRAMS

- f Associate in Science(A.S)
- f Certificates of Achievement

DESCRIPTION

The Business Office Technology programs promote the econo development of the community; provide for lifelong learning and academic excellence through course content, application, a technology; serve diverse populations; encourage positive work ethic; and meet workforce needs through skills developme training, and personal growth.

The Business Office Technology programs offer training keyboarding, office software applications, filing and recommanagement, accounting (Bookkeeping Certificate), custor service, and business English and math applications. Students are prepared for career opportunities in administrative suppor bookkeeping and data entry, customer service and other eletvel office positions.

As a result of ongoing changes in technology, the need to expand competencies, and changing transfer requirements, if *ifeat* and degree requirements may also change. If you note changes in degrees or certificate requirements, or if courses are not offered in a particular semester, please consult with a counselor or faculty on how best to complete the program in which yare enrolled.

LEADS TO CAREER OPPORIES NOTICH AS:

- f Account Clerk
- f Administrative Support
- f Bank Teller
- f Billing Clerk
- f Bookkeeping
- f Customer Service
- f Data Entry
- f Executive Secretary/Assistant
- f File and Records Clerk
- f Information Clerk
- f Office Manager
- f Payroll Clerk
- f Typist

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programsfederal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

ASSOCIATE OF SCIENCE

Program OutcomesUpon successful completion of this program a student will be able to:

- f demonstrate proficiency in selecting and using appropriate business software applications tools.
- *f* prepare and deliver business documents and presentations in appropriate form, format, and language.
- f solve problems and make decisions collaboratively or independently.

RequiredMajor Courses 3(5 units)

F	BUS50 –Introduction to PC Applications	4.0
F	BUS110A–Beginning Keyboarding	1.0
F	BUS110B-Beginning Formatting and Document Proce	s \$i 0g
F	BUS111A–Intermediate Keyboarding	1.0
F	BUS111B–Intermediate Document Processing	2.0
F	BUS135 – Professionalisioffice Skills	4.0
F	BUS140A -Keyboarding Speed and Accuracy	0.5
F	BUS140B–KeyboardingSpeed and Accuracy	0.5
F	BUS150.15–Word Processing	3.0
F	BUS172-BusinessMachine Calculations	1.0
F	BUS173-Filing Procedures and Records Management	t 3.0
F	BUS175– Business Communications	3.0
F	BUS177–Proofreading and Editingkills	3.0
F	BUS190–Career Management	2.0
F	BUS194–Human Relations in Business	3.0
F	COM1 –Introduction to Public Speaking	3.0

SUBTOTAL35 UNITS

General Education RequiredCourses

Students must complete one of the following General Education Plans:

- HCCDGE (see page 76)
 - **F** English composition **F** Oral communication and Critical thinking
 - **F** Mathematical Concepts and Quantitative Reasoning
 - F Arts and Humanities
 - F Social and Behavioral Sciences
 - F Physical and Biological Sciences
 - F Ethnic Studies
 - F Lifelong Learning and Self Development

SUBFOTAL21 UNITS

Students can double courses and courses for General Education Electives (Courses Mubered 1499) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS

BUSINESS OFFICE TECHNOLBOOKKEEPINGTBOTB

CERTIFICATE OF ACHIEVEMENT

BUSINESS OFFICE TECHNOLOUGYORMATION PROCESSION (CERTIFICATE OF ACHIEVEMENT

h^/E ^FARSTINESUPERVISOR

PROGRAMS

f Certificates of Achievement

DESCRIPTION

This certificate prepares students with a set of soft skeltsognized as crucial to performing in a superviso

FIRST LINE SUPERVISOR (CT.FS)

CERTIFICATE OF ACHIEVEMENT

RequiredMajor Courses (6 units)

F	BUS32—Introduction to Business	3.0
F	BUS42—Electronic Spreadsheet (Excel)	3.0
F	BUS43-Business Information Systems & Info	Litera 4 y0
F	BUS194—Human Relations	3.0
F	COM1—	

BUSINES SIFORMATION WORKER

PROGRAMS

f Certificates of Achievement

BUSINES®IFORMATION WORKER LEV(ECTBIW1)

CERTICATE OF ACHIEVEMENT

RequiredMajor Courses (6 units)

F	BUS50-Introduction to PC Applications	4.0
F	BUS110A–Beginning Keyboarding	1.0
F	BUS110B-Beginning Formatting and Document Proc	es s lin0g
F	BUS135–Professional Office Skills	4.0
F	BUS172–Machine Calculations	1.0
F	BUS175–Business Communications	3.0
F	BUS190-Career Management	2.0

TAL:16 UNIT <0046>Tj /TT1 1 /TT1 1 /TT1 1 /TT1 1 /TT1 1 /

BUSINESS INFORMATION WORKER LEVEL-2 (CT.BIW2)

CERTIFICATE OF ACHIEVEMENT

(Complete all BIW1 courses listed) (**u6**its)

- F BUS50-Introduction to PC Applications
- F BUS110A-

4.0

CHEMISTRY

PROGRAM

f Associate in Science for Transfer (ATS).

DESCRIPTION

CHEMISTR(AST.CHM

ASSOCIATE IN SCIENCE FOR TRANSFER

Program OutcomesUpon successful completion of this programstadent will be able to:

- f apply appropriate chemical theories, concepts, principles, methods, and laboratory skills to relevant science and engineering settings.
- f demonstrate competence in chemistry laboratory techniques and experimental methods.

RequiredMajor Courses 36 units)

rtoquii		
F	CHM-1A-General Chemistry I	5.0
F	CHM-1B-General Chemistry II	5.0
F	CHM-12A-Organic Chemistry I	5.0
F	CHM-12B-Organic Chemistry II	5.0
F	PHY-4A-General Physics/Mechanics	4.0
F	PHY-4B-General Physics/ElectricityMagnetism	4.0
F	MAT-3A – Analytic Geometry and Calculus I	4.0
F	MAT-3B–Analytic Geometry and Calculus II	4.0
Recorr	nmended Major Elective(None Required)	
F	MAT-3C–Analytic Geometry and Calculus III	4.0
F	MAT-4 – Linear Algebra	3.0
F	MAT-5 – DifferentialEquations	3.0
F	PHY-4G GeneraPhysics/Waves, Heat, Light	4.0
	SL	BOTALS
Genera	al Education Required Courses	
Studer	nts must complete one of the following General E	ducation

36 UNITS G

S Plans: IGETCor STEM(seepage80) 31units Students can doubleount requiredcourses and courses for General Education

Electives (Courses Numbered 9) required when degree units plus GE units total fewer than 60

TOTAL: 60 UNST

In order to earn this degree, students must complete the Associate Degree for Transfer Requirements:

- 1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental **General Education** Transfer Curriculum (IGETC) or the California Ststude ran C4.003 Tw 0-4.7 (ra) 5.2 (n) (i)-7

CHICANX STUDIES

PROGRAM

f Associate of Arts (A.A.)

DESCRIPTION

The Chican Studies Program provides organized studies in the heritage of Chicanx culture and community to foster and expand a general understanding of this group. The Chicanx degree courses give students the opportunity to develop competence in an understanding of the language, history, and culture as well as current issues affecting the community. Completion of the Chicanx major enhances students' employment opportunities and careers in schools, community groups, governmental agencies, and the private sector.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- f Community and Union Organizer
- f Community Liaison
- f Counselor
- f Cultural Anthropologist
- f Grant Writer
- f Lawyer
- f Professor/Teacher
- f Public Health
- f Public Policy
- f Social Work
- f Sociologist

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.org – CSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

CHICANX STUDIES (AA.CHCX)

ASSOCIATE OF ARTS

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* demonstrate knowledge of Chicanx in the United States including an evaluation of the political experiences with respect to local and national leaders.
- *f* apply critical thinking skills in reading, **nop**rehending, and interpreting Chicanx studies scholarship including major contributors who hainduced the course of study, policy and or culture.
- *f* demonstrate knowledge of Chicanx culture **indi**ng an analysis **ic**ultural expressions including but not limitedo contemporary culture, literature or cinema.
- *f* distinguish variations within the Chicanx community with respect to class, gender, ethnicity race, and sexuality.

Required Major Courses (14 units	s)	
F ETH-1 – Introduction to E	thnic Studies	3.0
F ETH-3 – Introduction to C	hicanx Studies	3.0
F ETH-4 – Chicanx Culture		3.0
F SPA-1 – Elementary Spar	nish 1	5.0
OR		
SPA-1X – Elementary Sp	anish 1 for Chicano Students	5.0
OR		
SPA-1S – Elementary Sp	anish 1 for Spanish Students	5.0
Major Electives (Complete 6 units	s)	
F ETH-2 – Chicana/o/x Lea	dership	3.0
F ETH-5/POL-5 – Chicano	Politics	3.0
F ETH-6 – La Chicana		3.0
F ETH-7 – Chicana/o/x The	atre	3.0
F ETH-12 – Chicano Cinem	a	3.0
F HIS-49A– Chicano Histor	уА	3.0
OR		
HIS-49B – Chicano Histor	гу В	

SUBTOTAL: 20 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD G**(**see page 76)

- F English composition F Oral communication and Critical thinking
- F Mathematical Conceptsmal Quantitative Reasoning
- F Arts and Humanities
- F Social and Behavioral Sciences
- F Physical and Biological Sciences
- F Ethnic Studies
- F Lifelong Learning and Self Development

SUBTOTAL: 21 UNITS

Students can double-count required courses and courses for General Education

Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.

COMMUNICATION STUDES

PROGRAM

f Associate in Artsfor Transfer (AA.-T)

DESCRITION

The Associate in Arts in Communication Studies 2.0 for Trar allows students to focus their major course work and required electives to achieve communicative competence in the areas of

COMPUTER SCIENCE FOR TRANSFER

PROGRAM

f Associate in Science for Transfer (ATS).

COMPUTER SCIENTCOR TRANSFERSTCS

ASSOCIATE IN SCIENCE FOR TRANSFER

RequiredMajor Courses 3(3 units)

- F CSS-2A Object Oriented Programming 4.0
- F CSS-2B Data Structures and Algorithms
- F CSS-3 Computer Architecture and Assembly 4.0
- F CSS-7 Discrete Structures
- F MAT-3A–Analytic Geometry and Calculus I
- F MAT-3B-Analytic Geometry and Calculus II 4.0
- F PHY-4A General Physics I/Mechanics
- F BIO-1–Fundamental Biological Concepts

SUBIOTAL33UNITS4

4.0

4.0

4.0

4.0

5.0

3 Bere

COMPUTER SCIENCE AND INFORMATION SYSTEMS COMPUTER SCIENCE OPTION

PROGRAMS

- f Associateof Science (A.S.)
- f Certificate of Achievement

COMPUTER SCIENCE AND INFORMATION SYSTEMS—COMPUTER SCIENCE OPTION (AS.

ASSOCIATE OF SCIENCE

Required Major Courses (20 units)

- F CSS-1 Introduction to Computer Science and Programming Fundamentals 4.0
- FCSS-2A Object Oriented Programming4.0
- FCSS-2B Data Structures and Algorithms4.0
- F CSS-3 Computer Architecture and Assembly Language Programming 4.0
- F CSS-7 Discrete Structures

SUBTOTAL: 20 UNITS

4.0

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE(see page 78) 39 units

IGET(see page 80) 37 units

Students can double-count required cses and courses for General Education

Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.

COMPUTER SCIENCE AND INFORMATION SYSTEMS

COMPUTER SCIENCE AND INFORMATION SYSTEMS CISCO CERTIFIED NETWORK ASSOCIATE

PROGRAMS

f Certificates of Achievement

DESCRIPTION

This Cisco Certified Network Associate (CCNA) Certificate Achievement combines all of the required courses needed prepare for the CCNA exam, an industrycognized associate level certificate. This certificate is intended to be completed in one year and a half and as such prepares students for careers in Information Technology with a focus in networking. This certificate is specially designed to send students on a fastrack career in IT careers related to networking.

LEADS TO CAREER OPPORIES NOT AS:

- f Computer Network Speciatis
- f Network and Computer System Administration

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

COMPUTER SCIENCE AND INFORMATION SYSTEMS CISCO CERTIFIED NETWORK ASSOCIATE) (CT.CCN

CERTIFICATE OF ACHIEVEMENT

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As d 6 (he)3(a)-2

RequiredMajor Courses (5 units)	
F CSS-50 Introduction to Networks: CCNA 1 4.0	
F CSS-54 Switching, Routing, and Wireless Essentials: CCNA20	
F CSS-52 Enterprise Networking, Security and Automation: CCNA30	
F COM3–Surveyof Human Communication 3.0	
OR	
F ENG-1A-College Composition and Reading 3.0	

TOTAL: 15UNITS

COMPUTER SCIENCE AND INFORMATION SYSTEMS CYBERSECURITY

PROGRAMS

f Certificate of Achievement

DESCRIPTION

COMPUTER SCIENCE AND INFORMATION SYSTEMS CYBERSECUR(CY.S)

CERTIFICATE OF ACHIEVEMENT

RequiredMajor Courses 20 units)

F CSS-1 Introduction to Computer Science and Programmaing

4.0

- F CSS-50 Introduction to Networks: CCNA 1
- F CSS-53 -/IRRC31012 R

COMPUTER SCIENCE AND INFORMATION SYSTEMS DIGITAL WEB AND MOBILE DEVELOPMENT

PROGRAMS

- f Associateof Science (A.S.)
- f Certificates of Achievement

DESCRIPTION

COMPUTER SCIENCE AND INFORMATION SYSTEMS DIGITAL WEB AND MOBILE DEVELOP (AFS).DWMD)

ASSOCIATE OF SCIENCE

RequiredMajor Courses (4 units)

F BUS32–Introduction to Busines	ss 3.0	1
F CSS-25 Multimedia Integration	3.0	1
F CSS-27 Project Management us	sing Microsoft Project 4.0	
F CSS-64 HTML 5 and CSS3Web	Development 4.0	1
Major Electives (Complete 8units)		
F CSS-26 Dreamweaver	4.0	J
F CSS-74 Wordpress for Website	s 4.0)
F CSS-76 Android App Developm	ent Using Java 4.0	l
F CSS-86 Adobe Animate	4.0	1
Major Electives (Complete an addition	al &units)	
F CSS-29 Programming for Multir	nedia 4.0	I
F CSS-76 Android App Developm	ent Using Java 4.0	1
F CSS-65 Introduction to IOS App	Development 4.0	1
F CSS-78 Mobile Game Design	4.0	I

F CSS-84 Beginning Digital Cartooning in Adobe Animate4.0

SUBTOTAB:0 UNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

HCCD G**(**see page 76)

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COMPUTER SCIENCE AND INFORMATION SYSTEMS MOBILE DEVELOPMENT OPT(CONMD)

CERTIFICATE OF ACHIEVEMENT

RequiredMajor Courses (4 units)

- F BUS32-Introduction to Business 3.0
- FCSS-25 Multimedia Integration3.0
- F CSS-27 Project Management using Microsoft Project 4.0
- F CSS-64 HTML 5 and CSS3Web DeveloT1 19 (e)- Tc 0.721 0 6 -(Tw0.721 0ad-7.1)0.7 (d)-.8 (M)0.6 ((M

COMPUTER SCIENCE AND INFORMATION SYSTEMS WEBDEVELOPMENT OPTI((20)1.WD)

CERTIFICATE OF ACHIEVEMENT

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, C antw40. (a)-iv (a)1.er[(e)0.7 esp

Requir	edMajor Courses (4 units)	
F	BUS32-Introduction to Business	3.0
F	CSS-25 Multimedia Integration	3.0
F	CSS-27 Project Management using Microsoft Project	4.0
F	CSS-64 HTML 5 and CSS3Web Development	4.0
Major I	Electives(Complete 8units)	
F	CSS-@-Dreamweaver	4.0
F	CSS-74 ₩ordpress for Websites	4.0
	TOTAL 22 UN	IITS

COMPUTER SCIENCE AND INFORMATION SYSTEMS NETWORK AND SECURITY OPTION

PROGRAMS

f Associateof Science (A.S.)

f

COMPUTER SCIENCE AND INFORMATION SYSTEMS NETWORK AND SECURITY OP(PAG. PPCN)

ASSOCIATE OF SCIENCE

RequiredMajor Courses (0 units)

F	CSS-1 Introduction to Computer Science Brogramming Fundament	ntsa44.0
F	CSS-50 Introduction to Networks CCNA 1	4.0
F	CSS-51 Switching, Routing, and Wireless EssentialSNA 2	4.0
F	CSS-52 Enterprise Networking, Security, and Automati@CNA 3	4.0
F	CSS-53 Gomputer Security Principles	4.0
F	CSS-54 NetworkSecurity Principles	4.0
F	CSS-55 Systems and Network Administration	4.0
F	CSS-56 Storage Management and Virtualization	4.0
F	CSS-169 IT Essentials	4.0

SUBTOTAB6 UNITS

General Education Required Courses

Students must complete one of the following General Education: Plans

HCCD G(see page 76)

- F English composition F Oral communication and Critical thinking
- F Mathematical Concepts and Quantitative Reasoning
- F Arts and Humanities
- F Social and Behavioral Sciences
- F Physical and Biological Sciences
- F Ethnic Studies
- F Lifelong Learning and Self Development

SUBTOTAL: 21 UNITS

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COMPUTER SCIENCE AND INFORMATION SYSTEMS NETWORK AND SECURITY OPTION (CT.PCN)

CERTIFICATE OF ACHIEVEMENT

RequiredMajor Courses (0 units)

- F CSS-1 Introduction to Computer Science and Programming 4.0
- F CSS-50Introduction to NetworksCCNA 1
- F CSS-51Switching Routing and Wireless EssentialSNA-0.001 2.4 (E)1.7 (s)-2.4 (s)-2.5 (e)0.7 (n)0.5 (t)1.6

4.0

COMPUTER SCIENCE AND INFORMATION SYSTEMS TECHNICAL SUPPORT

PROGRAMS

f Certificate of Achievement

DESCRIPTION

The Technical Support Certificate of Achievement combines information technology courses that provide students with fundamental skills necessary for entervel computer technical support careers

COMPUTER SCIENCE AND INFORMASTYOTEMS TECHNICAL SUPPORTMC 0 T 0.1.0c 3.809

CONSTRUCTION MANAGEMENT E ARCHITECTURE

PROGRAM

f Associate of Science (A.S.)

DESCRIPON

The Associate of Science Degree in Construction Management Architecture provides a comprehensive introduction to the constructionmanagement profession and profe

CONSTRUCTION MANAGEMENT ARCHITECTURAS.CMA

ASSOCIATE OF SCIENCE

RequiredMajor Courses 20 units)

F CMA51-Introduction to Construction Management and Architectur	re 3.0
F CMA55–Introduction to Structural Design and Codes	3.0
F CMA-57–Construction Law and Contracts	3.0
F CMA61 – Construction Field Practice: LayouFoundations & Framing	4.0
F CMA62–Construction Field Practice: Exterior and Interior Finish	4.0
F CMA-81–Computer Aided Drafting and Design I	3.0
RequiredMajor Courses (Complete one emphasis 115115)	
F CONSTRUCTION MANAGEME ®TMA 52,53, 54, 56, 91	15.0
F ARCHITECTUREMA70, 71, 72, 82, 83	15.0
Major Elective Course Complete3 units from the same emphasis as above	
F CONSTRUCTION MANAGEME NM A63, 64, 65, 66, 84, 9 E ,GN11	30
F ARCHITECTUREMA53, 84, 90, 91, EGM	3.0
	SUBTOTAL38

DIGITAL ARTS

PROGRAMS

- f Associateof Arts (A.A.)
- f Certificate of Achievement

DESCRIPTION

The Digital Arts program offers a certificate and associate degre Digital Arts. Classes include training in graphic design, digital graphics, 2D digital illustration, 2D digital photographic imaging, digital video and audio editing, 2D and 3D digital animation, 3D modeling, storyboard development for an.4 (ma)-45 (t)0.7 (ii)-1.5 tal (l)-1.5 (v)-6 (D)-3.D digi3d1528 Tm (T5)-3.1 ()]42.4 (

DIGITAL ART(SA.DA)

ASSOCIATE ØRTS

Program OutcomesUpon successful completion of this program a student will be able to: f demonstrate effective technical proficiency in the creation of digital artwork or projects f

Graphic Design	Complete 2courses from ART12A, ART78, ART84, and PHO
Digital Photography/Video	Complete2 coursesfrom PHO1, PHO2, ART12A, and AR84
Digital Animation/Illustration	Complete 2 courses from RT73, ART3, ART13 and AR-B4

RequiredMajor Courses **2**(1 units)

F	ART70-Introduction to Graphic Design/Computer Graphics	3.0
F	ART71–Introduction to 2D Digital Illustration	3.0
F	ART72-Introduction to Digital Arts	3.0
F	ART74-Digital 3D Design and Modeling	3.0
F	ART76-Introduction to 3D Digital Animation	3.0
F	ART77-Introduction to Digital Video and Video Editing	3.0
F	ART80-Introduction to Digital Photography and Photograph	nic Imaging3.0
Major	Electives ©omplete6 units)	
F	ART-3–Drawing and Composition	3.0
F	ART12A-Design	3.0
F	ART13-Three-Dimensional Design	3.0
F	ART73- Introduction to Digital Illustration for Animation	3.0
F	ART78-Motion Graphics and Design Principles	3.0
F	ART84–Digital Art Portfolio an Business Practices	3.0
F	PHO-1–Introduction to Photography	3.0

F PHO-2-BeginningBlack and White Photography

SUBTOTAI27 UNITS

3.0

General Education Required Courses

Students must complete one of the following General Educetians:

HCCDGE (see page 76)

- **F** English composition **F** Oral communication and Critical thinking
- F Mathematical Concepts and Quantitative Reasoning
- F Arts and Humanities
- **F** Social and Behavioral Sciences
- F Physical and Biological Sciences
- F Ethnic Studies
- F Lifelong Learning and Self Development

SUBTOTAL21 UNITS

Students can double ount required courses and courses for General Education

Electives (Courses Numbered 99) required when degree units plus GE units total fewer than

DIGITAL ART(STDA)

CERTIFICATE OF ACHIEVEMENT

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* demonstrate effective technical proficiency in the creator digital artwork or projects.
- *f* design effective visual communication for print, animation, and interactive media.
- *f* structure visual information utilizing d**tgi** design aesthetic principles.
- *f* appraise and analyze the influence of digital art and artists o the lives of all individuals, cultures, and societies.

RequiredMajor Courses **2**1 units)

- F ART70-Introduction to Graphic Design/Computer GrapBio
- F ART71–Introduction to 2D Digital Illustration 3.0
- F ART72–Introduction to Digital Arts
- F ART74–Digital Three Dimensional Design and Modeling.0
- F ART76–Introduction to 3D Digital Animation 3.0
- F ART77-Introduction to Digital Video and Video Editing 3.0
- F ART80-Introduction to Digital Photographic Imaging 3.0

Major Electives(Complete3 units)

F	ART12A–Design	3.0
F	ART13-Three Dimensional Design	3.0
F	ART73-Introduction to Digital Illustration Animation	3.0
F	ART78–Motion Graphics and Design Principles	3.0
F	ART84–Digital Art Portfolio & Business Practices	1.0-3.0
F	PHO-1–Introduction to Photography	3.0

TOTAL24 UNITS

3.0

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stud ents/fa/net-pricecalculator.html

EARLY CHILDHOOD EDUCATION

PROGRAMS

- f Associate in Science for Transfer (ATS).
- f Associateof Science (A.S.)
- f Certificate of Achievement

ASSOCIATE GREE FOR TRANSFER

The Associate in Science degree in Early Childhood Education (ECE) for Transfer provides a clearly articulated curricular track for students who wish to transfer to a CSU campus, while also serving the diverse needs of students insterings the breadth and depth of the field of early childhood education. Additionally, this degree exposes students to the core principles and practices of the field in order to build a foundation for their future personal, academic, or vocational paths.

The degree was designed to facilitate students' successful transfer to certain California State University (CSU) campuses that prepare them for advanced study in a variety of graduate programs, as well as a variety of careers such as teaching, Child Development Specialist, Program Directors, and Child Life Specialists. With a BA in ECE/Child Development, students are eligible for the Master Teacher and Site Supervisor levels of the CA Child Development Permit, using the Alternative Qualifications category.

ASSOCIATE DEGREE

The Early Childhood Education (ECE) program offers a comprehensive course of study to prepare students for career and job opportunities in early education and

ASSOCIATE IN SCIENCE FOR TRANSFER

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* plan and organize activities in a safe and healthy learning environment for optimum development of all young children in groups of 12 to 24 children.
- *f* assess and evaluate all children and learning environments to write reports according to state mandated guidelines.
- f work with families and their children to build respectful, supportive relationships for optimum growth and development of young children
- *f* connect with community agencies and programs to support children, families, and the early education and care profession.

RequiredMajor Courses 25 units)

- F ECE-1-Principles and Practices of Teaching Young Childuen
- F ECE-2-Child, Family, School & Community Relations 3.0
- F ECE-4 Introduction to Curriculum 3.0
- F ECE-6-Child Growth and Development 3.0
- F ECE-10 Observation and Assessment 3.0
- F ECE-12 Practicum: Field Teaching Experience 4.0
- F ECE-19 Health, Safety, and Nutrition in Early Childhood3.0
- F ECE-53 Teaching in a Diverse Society 3.0

SUBOTAL: 25 JNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

CSUGE (seepage78)	39 units
IGETQseepage 80)	37units

Students can doubleount required courses and courses for General Education Electives (Courses Numbere 29) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS

In order to earn this degree, students must complete the Associate Degree for Transfer Requirements:

 Completion of 60 semester units or 90 qua(e)-1.3h g@ieaf(g)#8(#)793(#)2(#)10 uBa

EARLY CHILDHOOD EDUCATAGNEC

ASSOCIATE OF SCIENCE

 Child Development Permit issued by the Commission on Teaching Credentialing (COO¢ational and Experience Day Requirements

 Teacher Assistant
 Requires any 6 ECE units

ECONOMICS

PROGRAM

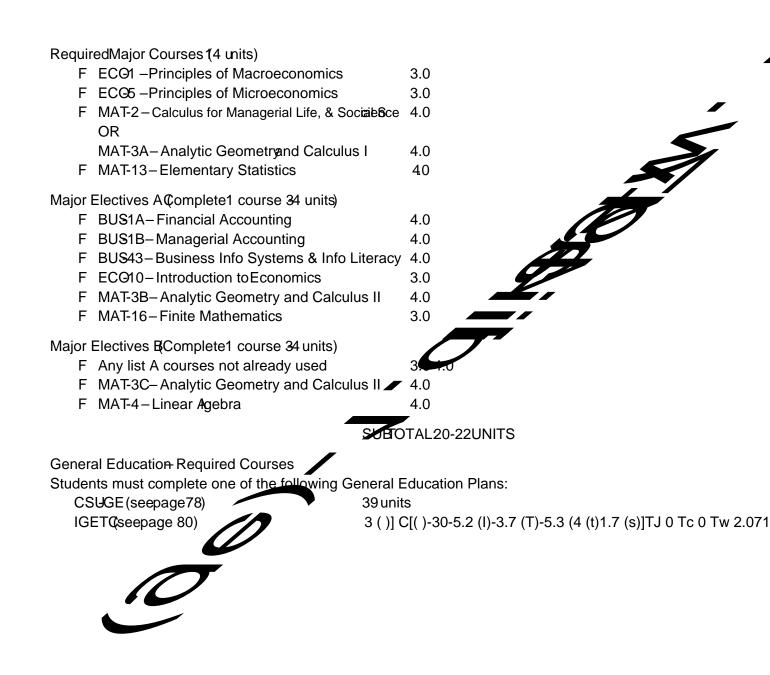
f Associate in Artsfor Transfer (AA.-T)

DESCRIPTION

The Associate in Arts degree in Economics for Transfer provic clearly articulated curricular track for students who wish to transfer to baccalaureate Economics degree programs **Dat** fornia State University (CSU) campus. This degree provides the lower division economics major courses required at many CSUs while exposing students to the core principles of the economics field. Economics is

ECONOMICISOR TRANSFERRAT.ECO

ASSOCIATE IN ARTOS TRANSFER





PROGRAM

f Associate in Art**s**or Transfer (AA.-T)

DESCRIPTION

The A.A. Degree in Elementary Teacher Educationnteisded for students who plan to complete a bachelor's degree at a transfer institution in preparation for a California Multiple Subject Teaching Credential. Most students pursue this credential with the goal of becoming an elementary school or special education teacher.

LEADS TO CAREER OPPORIES STUCH AS:

- f Counselor
- f Curriculum Specialist
- f Day Care Administrator
- f Elementary School Administrator
- f Elementary School Teacher
- f Resource Teacher
- f Special Education Teacher
- f Speech Pathologist
- f Training Specialist
- f Tutor

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

ELEMENTARY TEACHER EDUCATION

ASSOCIATE IN ARTOS TRANSFER

RequiredMajor Courses (1 units)

- FBIO10-General Biology4.0
- FCOM1 Introduction to Public Speaking3.0
- F EDU1 Introduction to Education in a Changing World 3.0 F ENG4A
 - 34A 3

taJ0/πΒθοφμί(k)-e 0 Twr S-2.1 (y2.4C)s.5 (Pu)2e 0 TwmSs.766 0 Td (-)Tj0.001 Tw 4.611 0 Td [(3)-2(P761)]TJ 0 Tc 0 Tw 1.263 0 Td ()Tj ΕΝ

EMERGENCY MEDICAL TECHNIQUEMEL 1

ENGINEERING

PROGRAMS

x Associateof Science (A.S.)

DESCRIPTION

Engineering is the science and art of applying scientific and mathematical principles, experience, judgment, and common sense to design things that benefit society. Engineers are problemselvers who make things work faster, cheaper, and more efficiently. Technologies developed by engineers improve the ways that we live, communicate, work, travel, stay healthy, antertain ourselves. From computer chips to cellphones and buildings to automobiles, engineering makes every aspect of .1 ()]TJ 0 Tc 0 2peg (r)0.9 (s)-.02 FIP7 (e(ou)-2.2(s)-1.4 (w6.7 (i)1. 3.2 (a)1.1 (Te)-2 (c1.1 (

ENGINEERIN(@S.EGN)

ASSOCIATE OF SCIENCE

Program Outcomes

REQUIRED MAJOR COURSES:

COURSES SHARED BY ALL TRACKS

Course Name and Number	Units
EGN 1R Introduction to Engineering	2
MAT 3A Analytical Geometry and Calculus I	4
MAT 3B Analytical Geometry and Calculus I	4
PHY 4A General Physics I/Mechanics	4
PHY 4B General Physics II/Electricity and Magnetism	4
A programming clas Choice of EGN 5 or CSS 2A or CSS 1	3-4

SUBTOTAL: 22/2 UNITS

3

4

SELECT ONE TRACK (COMPLETINGS)

MECHANICAL/AEROSPACE/MANUFACTURING ENGINEERING TRACK

EGN 8 Statics	3

CIVILENGINEERING TRACK

EGN 8 Statics

ELICTRICAL ENGINEERING TRACK

EGN 6Circuit Analysis

COMPUTER/SOFTWARE ENGINEERING TRACK

EGN 6 Circuit Analysis	4
CSS 2A Object Oriented Programming	4
EGN 7L Computer Interface with the Physical World Laboratory	1

GENERAL ENGINEERING TRACK

Choose ONE of the following:

EGN 4Materials Science and Engineering	4
EGN 6 Circuit Analysis	4
EGN 8 Statics	3

SUBTOTAL: 39 UNITS

REQUIREDIAJOR ELECTIVIES MPLETE -1223 UNITS FROM SELECTED TRACK

SELECT ONE EMPHASIS TO FOLLOW

Units Mechanical/ Aerospace/ Manufacturing

Civil

ENGINEERING FUNDAMENTALS

PROGRAMS

f Certificate of Achievement

DESCRIPTION

A student completing the Engineering Fundamentals Certific of Achievement will gain a solid grounding in the basic principles that underlie all engineering disciplines. T certificate provides both academic preparation for and a pathway to internships. When combined with further study, it

CERTIFICATE OF ACHIEVEMENT

Program OutcomesUpon successful completion of this		FINANCIAL AID
		Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal kon programs, and fee waivers.
		https://www.hartnell.edu/stud ents/fa/net-price calculator.html
RequiredMajor Courses (7-19 units)		
F MAT-3A – Analytic Geometry and Calculus I	4.0	
F MAT-3B – Analytic Geometry and Calculus I	4.0 4.0	
F PHY-4A General Physids Mechanics	4.0 4.0	
F EGN1R–Introduction to Engineering	4.0 2.0	
OR	2.0	
EGN1 – Introduction to Engineering	3.0	
F ENG-1A College Composition and Reading	3.0	
OR	3.0	
ENG-1AX College Composition and Reading	4.0	
ENG-TAX concept composition and reading	т. 0	
Major Electives(Complete7-9 units)		
F EGN5-Programming and Problem Solving in MATLA		
F CSS-1 Intro to Computer Science & Programming Faundentals	4.0	
F CSS-2A Object Oriented Programming	4.0	
F CHM-1A-General Chemistry I	5.0	L]

TOTAL: 24-28JNITS

PROGRAM

f Associate in Art**s** or Transfer (AA.-T)

DESCRIPTION

The Associate in Arts in English for Transfer offers a study of composition, language, and literature designed to develop skills in reading perceptively, writing effectively, and thinking critically. The program prepares students for diverse careers in advertisi business, communications media, public relations, law, government service, and taching.For detailed requirements for individual four year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer cour requirements in their major.

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a fa

LEADS TO CAREER OPPORIES NOT AS:

- f Author
- f Biographer
- f Columnist
- f Correspondent
- f Creative Director
- f Editor
- f English Teacher
- f Grant Writer
- f Lawyer
- f Lobbyist
- f Playwright
- f Public Relations
- f Reporter
- f Speech Writer
- f Spokesperson
- f Staff Writer

ENGLISH(AAT.ENG)

ASSOCIATE IN ARTOS TRANSFER

RequiredMajor Courses 6 units)

F ENG-1B College iterature and Composition	3.0
F ENG-2- Critical Thinking and Writings	3.0
Major ElectivesA (Complete9 units)	
F ENG-22- Studiesof Poetry	3.0
F ENG-24-The Short Story	3.0
F ENG-31–BeginningCreativeWriting	3.0
F ENG-44A World Literature I	3.0
F ENG-44B-World Literature II	3.0
F ENG-46A	

ENGLISH FOR MULTILINGUAL SPEARERGINNING (NCCT.ENGM.BEG

PROGRAM

f Certificate of Conpetency

DESCRIPTION

The Certificate of Competency English for Multilingual Speakers Beginning is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 620, Beginning Reading and Writing, and ENGM 622, Beginning Speaking and Listening. This noncredit program provides students ith reading, writing, listening, and Beestaling87states at the The task (of xtE.84.11;(f)46)2(23)0v14111 ((15)-(BE

ENGLISH FOR MULTILINGUAL SPEAKERV INTERMEDIATE (NCCT.ENGM.LOW)

PROGRAM

f Certificate of Conpetency

DESCRIPTION

The Certificate of Competencity English for Multilingual Speakers Low Intermediate is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 630, -Indermediate Reading and Writing, and ENGM 632, Ilotermediate Speaking and Listening. This noncredit opgram provides students with reading, writing, listening, and speaking skills at the iontermediate level. The certificate prepares students for further academic and employment opportunities.

PROGRAM GOALS AND OBJECTIVES:

This noncredit program will provide English language learners with whole language skills at the lowtermediate level to prepare for further academic study and better employment opportunities. Students will gain academic English skills, which include reading comprehension of short texts, increased academic vocabulary, listening for main ideas, responding to and producing questions, and paragraph level writing. Students will be able to apply those skills to further English studies, both credit and noncreative well as employment opportunities in the Salinas Valley. These areaso courses Fitado (well) studies (will) (cop (@ (@)@). (fo)@). (fo)@). (fo)@).

ENGLISH FOR MULTILINGUAL SPEAKERERMEDIATE

ENGLISH FOR MULTILINGUAL SPEAKEERH INTERMEDIATE (NCCT.ENGM.HIGH)

ENGLISH FOR MULTILINGUAL SP**BAKER**/ANCED (NCCT.ENGM.ADV)

PROGRAM

f Certificate of Conpetency

DESCRIPTION

The Certificate of Competency English for Multilingual Speakers Advanced is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 660, Advanced Reading and Writing, and ENGM 662, Advanced Speaking and Listening. This noncredit program provides students withreading, writing, listening, and speaking skills at the advanced level. The certificate prepa students for further academic and/or employment opportunities.

PROGRAM GOALS AND OBJECTIVES:

This noncredit program will provide English language learners with whole language skills at the advanced level to prepare for further academic study and better employment opportunities. Students will gain academic English skills, which include drafting and revising critical response essays, reading comprehension rouger texts, group discussion and class presentation skills, and accurate note taking. Students will be able to apply those skills to transferel coursework, as well as employment opportunities in the Salinas Valley. These are note textbooks.

Program OutcomeUpon successful completion of this program, a student will produce and comprehend English at the advanced level. This includes participating in discussion and classroom activities as well as essawriting, sum0.7 D25 (i)-0.6 (s)-3.5 (Tw)]TJ d-3.5 0.05.443 0 Td [(w)-1.9 8 (p)-0. i4iiw r.

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ENVIRONMENTAL SCIENCE

PROGRAM

f Associate in Science for Transfer (ATS).

DESCRIPTION

Environmental Science is an interdisciplinary field incorporating biology, chemistry, physics, geology, math, and economics. Environmental Science examines how humans affect the global environment. Students will gain knowledge of fundamental concepts that inform society about the environment in which we live. Environmental scientists strive to protect the environment and human health by cleaning up polluted areas, advising policymakers, or working with government and industry to reduce waste and improve conditions. Other career possibilities include academia, environmental law, environmental consulting, sustainability, and resource management.

• Completion of 60 semester units or 90 quarter units of degreeapplicable courses,

ENVIRONMENTAL SCIENACSET.

FILM, TELEVISION, AND ELECTRONIC MEDIA

PROGRAM

FILM, TELEVISION, AND ELECTRONIC (MSDFATV)E

ASSOCIATE IN SCIE**ROR** TRANSFER

RequiredMajor Courses (8 units)

qon			
F	TAG50-Introduction to Film: the Classics to	the 1960s	3.0
F	TAG51-Television Studio Production		3.0
	OR		
	TAG54-Video Production LabSingle Came	ra	3.0
F	TAG57-Introduction to Electronic Media		3.0
F	TAG58 –Introduction to Media Writing		3.0
F	TAG59 – Beginning Audio Production		3.0
F	TAG53–Playwriting and Screenwriting		3.0
	OR		
	ART78-Motion Graphics and Design Princi	ples	3.0
		SUBOTAL	181 IN

SUBTOTAL:18 UNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

CSUGE (seepage 78)

GENERAL STUDIERTSANDHUMANITIESAS.GAH)

GENERAL STUDIESCIALNDBEHAVIORAL SCIENCES

PROGRAMS

f Associateof Arts (A.A.)

DESCRIPTION

The General Studies program with emphasis in Social and Beha Sciences offers students the opportunity to cultivate comprehensive understanding of concepts, theories, ϵ methodologies within the diverse disciplines constituting the field This program offers students a comprehensive education focused on the study of human behavior and society within cultural, economic, political, religious and historical context. This emphasis enables students to explore their own identity and the dyna**snio**f human interaction within larger societal frameworks. By delving into cultural and social structures, students gain foundational knowledge about the complexities of their own societies, as well as, the behavioral and

GENERAL STUDI**GS**CIALANDBEHAVIORAL SCIENCES (ABA).GS ASSOCIATE OF ARTS

REG	QUIRED MAJOR COURSES		
	For the 18 units required, select courses from at least two disciplines; from one of the disciplines select at least two		
cou	rses. Students can double count General Education courses with the area of emphasis.		
F	Addiction Studies AOD 1		
F	Administrative Justice: ADJ 13, 51		
F	Agriculture: ABT 53		
F	Anthropology:ANT 1, 2, 10, 20		
F	BusinessBUS 32		
F	Communication StudiesCOM 4		
F	Early ChildhoodEducation:ECE2, 6, 53		
F	EconomicsECO 1, 5, 10		
F	Education:EDU 1		
F	Ethnic Studies:		

GENERAL STUDIESEM

PROGRAMS

f Associateof Arts (A.A.)

DESCRIPTION

The General t8dies program with an emphasis in STEM allo students to develop knowledge of scientific theories, concepts, and data about both living and noliving systems. The prograr emphasizes the natural sciences, which examine the phy: universe, its life forms, and its natural phenomena. In addition, this emphasis will explore experimental methodology, testi hypotheses, and the power of systematic questioning. Math courses within the program will emphasize the development of mathematical and quantitative reasoning skills. This program offers students a comprehensive education that integrates critical thinking, problem solving and communication skills. Subjects will include; mathematics, biological and physical sciences.

By engaging in careful educational planning with a counselor, this degree is for students seeking to explore various disciplines in the

GENERAL STUDI**ES**EM(AA.GSTEM) ASSOCIATE OF ARTS

PROGRAM

f Associate in Science for Transfer (A.S.-T)

DESCRIPTION

The Associate in Science degree in Geology for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate geology degree programs at a California State University (CSU) campus. This degree provides the lower division geology major courses required at many CSUs while exposing students to the core principles and practices of the geology field. Students completing the Geology degree will have an introductory foundation through the study of the scientific method, Earth materials, Earth processes, and Earth history. They will acquire skills, knowledge, and abilities that enable students to use a scientific approach incorporating basic chemistry, physics, and mathematics to the study of the Earth; identify common minerals, rocks, and geomorphic features of Earth; describe the materials and elucidate the processes that comprise the robymic Earth system; describe the evidence for and occurrence of majevents in Earth History. Most common career opportunities with baccalaureate degree include: entry-level field technician/geologist in industry (mining, oil, environmental consulting) and govremental agencies (Department of Natural Resources, Geological Surveys, National Parks). This Associate in Science in Geology for Transfer (AS-T) Degree is intended to meet the lower division requerments for geology for all CSU campuses. For detailed requirements for individual four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- f Aerial/Scientific Photographer
- f Agricultural Engineer
- f Architect
- f Computer Analyst
- f Economic Geologist
- f Environmental Lawyer
- f Forest Ranger
- f Geochemist
- f Geologist
- f Hydrologist

TRANSFER PREPARATIONAs

f

3

GEOLOGY (AST.GEL)

ASSOCIATE IN SCIENCE FOR TRANSFER

Required Major Courses (26 units)

F GEL-1 – Physical Geology	4.0
F GEL-6 – History of the Earth	4.0
F CHM-1A – General Chemistry I	5.0
F CHM-1B – General Chemistry II	5.0
F MAT-3A – Analytic Geometry and Calculus I	4.0
F MAT-3B – Analytic Geometry and Calculus II	4.0

SUBTOTAL: 26 UNITS

General Education – Required Courses

HIGH SCHOOL EQUIVALENCY

PROGRAM

f Certificate of Competency

DESCRIPTION

The Certificat

PROGRAM

f Associate in Arts for Transfer (A.A.-T)

DESCRIPTION

History, in the broad sense, is the study of all human experience. It examines people, institutions, idea and events through past and into the future. The study of history develops cultural literacy, critical thinking, and other skills while helping to understand today and plan for tomorrow. The discipline provides us with a better understanding of ourselves as individuals and as a society. In the study of history it is more important to learn the skills of finding, interpreting, and relating historical information tharit is to simply to memorize historical data. Through the studyf history, a student can acquire the techniques of gathering and applying information to gain a perspective on the human condition fields for which BA graduates in history are qualified are law, journalism, writing, the foreign service, consulting, teaching, archiving, researching, and museum curating.

The Associate of Arts degree in History for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate degree programs at a California State University (CSU) campus. For detailed requirements for individual four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- f Archivist
- f Biographer
- f Editor
- f Foreign Service Officer
- f Historian
- *f* Historic Preservation Specialist
- f International Relations Specialist
- f Lawyer
- f Lecturer
- f Media Consultant
- f Museum Curator
- f Museum Technician/Specialist

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepa.48 i Tw 101Sfr2i Tw 1011r

HISTORY (AAT.HIS)

ASSOCIATE IN ARTS FOR TRANSFER

3.0
3.0
3.0

KINESIOLOGY

PROGRAMS

Associate in Arts for Transfer (A.A.-T) Associate of Science (A.S.)

DESCRIPTION

KINESIOLOGY (AAT.KIN)

ASSOCIATE IN ARTS FOR TRANSFER

Required Major Courses (12 units)

Major Movement Courses: Select 3 courses from any (3) of the following areas for a Minimum of 3 units.

-

Physio

1.5

KINESIOLOGY (AS.KIN)MC P MICID 1 BDC 0.002 Tw 10.02 0 0 10.02 54 720 Tm (A)1.2 (SSO)-0.6 (C

LAW, PUBLIC POLICY AND SOCIETY

PROGRAM

Associate in Arts for Transfer (A.A.-T)

DESCRIPTION

LEADS TO CAREER OPPORTUNITIES SUCH AS:

LAW, PUBLIC POLICY AND SOCIETY (AAT.LAW

LIBERAL ARTS: PATHWAY TO HEALTH SCIENCES

PROGRAMS

Associate of Arts (A.A.)

DESCRIPTION

LIBERAL ARTS: PATHWAY TO HEALTH SCIENCES (

MATHEMATICS

PROGRAM

x Associate in Science for Transfer (A.S.-T)

DESCRIPTION	TRANSFER PREPARATION
	TRANSFER RESOURCES
	FINANCIAL AID
LEADS TO CAREER OPPORTUNITIES SUCH AS:	
f f	
J f	
f	
f f	
f	
f	
J f	
, f	
f	
J f	
f f	

MATHEMATICS (AST.MAT)

ASSOCIATE IN SCIENCE FOR TRANSFER

Required Major Courses (12 units)

F F

г F

MUSIC

PROGRAMS

- f Associate in Artsfor Transfer (AA.-T)
- f Associateof Arts (A.A)
- f Certificate of Achievement

DESCRIPTION

The Music Program offers coursework and ensembles that embrace where side of our valley. Music is the universal language of the global village of the 21 century. It forms an integral part of our lives, from the musical "logos" that introduce every media program, to the songs and dances that provide identity to our diverse backgrounds. Study and participation in music has proven to further not only creativity and critical thinking, but also our sense of cooperation and community. At Hartnell, performance opportunities are available for all students in a wide range of cal and instrumental ensembles. In addition, many courses are designed for students with no previous training in music. The department offers courses that prepare music majors for transfer to-formar universities as well as many courses for the general student.

The AA Degree in Music prepares students for transfer and careers in the following fields: credentialed school instruction, private studio instruction, vocal instrumental performance, composition or or arranging f film/television/multimedia events, sound engineering, conducting, college or university instruction, arts and education administration, and music journalism. Students intending to begin in the AA in Music should plan to take-2/ldShe summer prior to starting their music degree. For detailed requirements for individual fouryear institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

CERTIFICATE OF ACHIEVEMENT

This certificate prepares students to transfer to four year universi.9 (e)-2 Civer

MUSIC

MUSIC (A.MUS) ASSOCIATE OF ARTS

RequiredMajor Courses 3(1.5 units)

F	MUS1A-Music Appreciation – Historical	3.0
F	MUS2-Music Fundamentals	3.0
F	MUS10-Applied Music Voice	2.0
	(MUS10 course must be taken two times)	
	OR	
	MUS11-Applied Music-Instrumental	2.0
	(MUS11 Course must be taken four times)	
F	MUS13A–Beginning Piano I	

CERTIFICATE OF ACHIEVEMENT

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

RequiredMajor Courses (4.5 units) F MUS2, Music Fundamentals 3.0 F MUS46, Music Theory and Musicianship I 4.0 F MUS47, Music Theory and Musicianship II 4.0 F MUS13A, Beginning Piano I 1.5 F MUS13B, Beginning Piano II OR F MUS17A, Beginning Guitar I 1.0 F MUS10, Applied Music Voice OR F MUS11 Applied Musical Instrumental (2 semester) 1.0 One of the Following Courses units) F MUS1A, Music appreciation Historical Perspective 3.0 F MUS5, Ethnic Musics in the United SeatI 3.0 F MUS6, Hawaiian Music 3.0 F MUS7, Jazz Appreciation 3.0 F MUS8, American Popular Music 3.0 F MUS42, Electronic Musiblistory and Composition 3.0 2 Semesters of any of the following Courses (2 units) F MUS20, Hartnell College Choir 1.0 F MUS21, Hartnell Chambers Singers 1.0

FMUS25, Hartnell College Wind Ensemble1.0FMUS26, Jazz Ensemble1.0FMUS37, Hartnell Orchestra1.0

https://www.hartnell.edu/stud ents/fa/net-price

TOTAL: 19.5JNITS

NURSING-REGISTERENDURSING

PROGRAM

f Associateof Science (A.S.)

DESCRIPTION

The Hartnell College Associate Degree in Nursing (ADN) is a de group of pre-requisite and ecequisite courses that preparse students to become registered nurses. Tiber-semester course of study consists of classroom, high-fidelity simulation, nursing skills laboratory, seminar, interprofessional, and clinical experienc While enrolled in the associate degree program, Hartnell students may enroll in transfer level courses that meet requirements for a Bachelor's of Science degree in nursing. Graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLE RN). After assing the licensure examination, graduates may practice as registered nurses in a variety of acute and community based settings. Graduates demonstrate theadership and comportment required for a professional nurse committed to competence, caring, collabation, and curiosity, while providing safe, quality nursing care to diverse individuals in various care settings. The Hartnell College ADN Program is fully approved by the California Board of Registered Nursing (BRN) and is accredited by the Accreditation Commission for Education in Nursing

TRANSFER STUDENTS

Completing the AS degree does not meet all requirements for transfer. Students planning to transfer to a university should follow the requirements of the feguear university. Information on course equivalencies and major preparation requirements for the University of California (UC) and California State University (CSU) systems is available online at http://www.assist.org. Please consult with a Hartnell College counselor to review transfer requirements. Hartnell, Monterey Peninsula, Cabrillo, and Gavilan Colleges are members of the collaborative baccalaureate of science degree in nursing (BSN) program at California State University, Monterey Bay. See https://www.hartnell.edu/NHS and <a href="https://www

ACCEPTANCE TO THE NURSING (RN) PROGRAM

The AssociateDegree in Nursing (ADN) requires separate application and screening procedures that must be

ASSOCIATE OF SCIENCE

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* incorporate leadership, management, and legthical principles to guide practice as a professional nurse.
- *f* apply increasingly complex nursing judgement **three** bretical concepts when providing safe nursing care to diverse individuals acr**dsse** lifespan in a variety of settings.
- *f* integrate caring into relationships and nursingeinventions that positively influence health outcomes and demonstrate sensitivity to the values of others.
- *f* communicate and collaborate with memberstbe interprofessional healthcare team to coordinate care and optize health outcomes.
- *f* model a spirit of inquiry when examiningtdachallenging the status quo, questioning underlying assumptions, and offering new insights to improve the quality of care.

Required General Education Courses:

MUST BE COMPLETED PRIOR TO ACCEPTINTO THE PROGRAM (24 units)

F BIO-5 – Human Anatomy	4.0	
F BIO-6 – Introductory Physiology	3.0	
F BIO-6L – Physiology Laboratory	2.0	
F BIO-27 – Principles of Microbiology	4.0	
F CHM-22 – The Science of Chemistry	4.0	
F ENG-1A – College Composition and Reading	3.0	
OR		
ENG-1AX – Intensive College Composition and Reading 4.0		
F MAT-13 - Elementary Statistics (Recommuted for Students pursu	uing BSAND	
Required General Education Courses: MAY BE TAKEN CONCURRENTLY WITH NRN COUR	SES (15 units)	

F	PSY-25 – Developmental Psychology - Lifespan OR	3.0
	NRN-70 - Growth and Development Across the Life	e Span for the Healthcare Professional
F	ANT-2 – Introduction to Cultural Anthropology	3.0
	AND	
	SOC-1 – Introduction to Sociology	3.0
F	Ethnic Group Course(see page 76) (ETH	1,32,4, 7, 8, 13, 21, 56)
F	COM-1 – Introduction of Public Speaking	3.0
	OR	
	COM-3 – Survey of Human Communication	3.0

CON'T ON URSING REGISTERED NURSING

RequiredMajor Courses (After Acceptance into the program 39.5 units) 1st SEMESTER11.5 units

- F NRN110-Foundationsfor Success for Registered Nursing Students 1.0
- F NRN46-Health Promotion and Foundational Health Concepts Across the Life 6 pan 1.5
- F NRN47 Social Determinants of health
- F NRN48-Nursing Assessment **dri**nterventions 10
- F NRN49-Introduction to Pharmacology and Medication Administration 1.5

2nd SEMESTER9 units

- F NRN56-Care of Diverse Individuals and Families with Stable Conditions
- F NRN57-1.5 Td ()10 6ID 2e459 0 Tc 0 Tw 1m 0 Td m 0 Td e0 6ID 2 T0Tw 1d9

8.0

NURSING-VOCATIONAL NURSING

PROGRAM

- f Associate of Science
- f Certificate of Achievement

DESCRIPTION

The Hartnell2 320.52 397.62 re W n BT /GS0 gs /TT1 1 Tf -0.004

NURSING-VOCATIONALURSINGAS.NVN)

ASSOCIATE OF SCIENCE

RequiredGeneral Education Courses MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO THE PRO22 RAME -

F	ENG-1A-College Composition and Reading OR	3.0
	ENG-1AX Intensive College Composition and Reading	4.0
F	MAT-13-Elementary Statistics	4.0
F	BIO-11* -Intro to Human Anatomy & Physiology	4.0
	OR	
	BIO-5*–Human Anatomy	(4.0)
	AND	
	BIO-6*–Introductory Physiology	(3.0)
	AND	
	BIO-6L Physiology Lab	(2.0)
F	PSY-2 [*] - General Psychology	3.0
F	LIB6-Information Competency in the Social Science	1.0
	OR	
	Communication and Analytic Thinking Course	,
F	Ethnic Group Course (see page 6) 3.0	
	(Recommended: ENGA with a Multicultural Perspective)	

*Prerequisite and corequisite courses markel with an asterisk must be completed within five (5) years of entering the vocatonal nursing program per Clafornia Code of Regulatons, Title 16: Profestional Regulations, Division 25: Board of Vocational Nursing and Psychiatrd oft g

liA6 (1)-6.y1

F	NUTR-51* -Essential of Nutrition	3.0	
	OR		
	NUTR-1-Nutrition	(3.0)	
F	NVN-70* –Growth & Development Across the Lifespan	3.0	
	OR		
	PSY-2 5 Developmental Psychology: Lifespan	(3.0)	
F	NVN-110 -Foundations or Success for VN Students	1.0	
F	NVN-119-Vocational Nursing Theory I: Fundamentals	4.0	
F	NVN-119.1-Vocational Nirsing Clinical I: Fundamentals		
F	NVN-130A-Basic Pharmacology A	1.0	
	0.		
2 nd SE	MESTER14 units		
F	NVN-121–Vocational Nursing Theory II	6.5	
F	NVN-121.1-Vocational Nursing Clinical II	6.5	
F	NVN-130B-Basic Pharmacology B	1.0	
3 rd SFI	3 rd SEMESTE R 14 units		
<u> </u>			
F	NVN-123–Vocational Nursing Theory II	6.5	
F	NVN-123.1-Vocational Nursing Clinical III	6.5	
F	NVN-130G-Basic Pharmacology C	1.0	

*Prerequisite and corequisite ourses markel with an asterisk must be completed

NURSING-VOCATIONAL NURSINCET.NVN)

CERTIFICATE OF ACHIEVEMENT

RequiredGeneral Education Courses MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO THE PROVING -

F ENG-1A-College Composition and Reading OR	3.0
ENG-1AX Intensive College Composition aReading	(4.0)
F MAT-13–Elementary Statistics	4.0
F HES120 – AHS Basic Life Support for HCP	(0.5)
F BIO-11*– Intro to Human Anatomy & Physiology OR	4.0
BIO-5*–Human Anatomy AND Eleml 0 Tw 1.552 0 Td [(–)1 ()]TJ -0.002 Tc 0	(4.0) 0.727 0 Td [(El)-2.5 Tw [(-Tc 0 Tw 1.268 0 Td [())-(
BIO-6*– Introductory Physiology AND	(3.0)
BIO-6L*– Physiology Lab F PSY-2*– General P727 0 TdT2 1 Tf -0R9 Tw 3 0 T	(2.0)

CON'T OF NURSING OCATIONALURSING

2 nd SE	MESTER14 units		
F	NVN-121–Vocational Nursing Theory II	6.5	
F	NVN-121.1-Vocational Nursing Clinical II	6.5	
F	NVN-130B-Basic Pharmacology B	1.0	
3 rd SEI	MESTER14 units		
F	NVN-123-Vocational Nursing Theory II	6.5	
F	NVN-123.1-Vocational Nusing Clinical III	6.5	
F	NVN-130G Basic Pharmacology C	1.0	
Nursin	Nursing and Allied Health Electives: (recommended, not required)		
F	F NVN-225-Success Strategies for Vocational Nursing: Fundamentals		
F	NVN-226-Success Strategies for Vocational	Nursing: Headtmotion 0.5	
F	NVN-227-Success Strategies for Vocational	Nursing: Care Coordination5	

F NVN-210– Intravenous Therapy and Blood Withdrawal Techniques

*Prerequisite and corequisite courses markel with an asterisk must be completed within five (5) years of entering the vocational nursing program per California Code of Regulations, Title 16: Professional Regulations, Division 25: Board of Vocational Nursing and Psychitaric Technicians of the State of California.

¹Any /HA BLS for Health Care Professional course is acceptable. AHA BLS for HCPs card must be current throughout program. Not required to apply. Must be completed prior to NVN 119.

PHOTOGRAPHY

PROGRAMS

- f Associateof Arts (A.A.)
- f Certificate of Achievement

DESCRIPTION

Photography is an omnipresentitytegral part of life in the 2ª

PHOTOGRAPHY (AA.PHO)

ASSOCIATE OF ARTS

RequiredMajor Courses2(1 units)	
F PHO-1–Introduction to Photography	3.0
F PHO-2-Beginning Black and White Photography	3.0
F PHO-3-AdvancedPhotography Lab	3.0
F PHO-4-Portfolio Photography	3.0
F ART12A-Design	3.0
F ART72–Introduction to Digital Arts	3.0
F ART80-Intro to Digital Photography & Photographic Imaging	3.0
Major ElectivesA (Complete3 units)	
F ART1A-Art History Survey I	3.0
F ART1B-Art History Survey II	3.0
F ART3-Drawing and Composition	3.0
Major Electives (Complete 3) Tiffs) T0j6121792 re W6n BTj 2C wj /TT	ົ 2 1 Tf -607rj01 T0j0111c 0.168Td4 RT
F ART6A–Watercolor andGouache	3.0
F ART6B– Oils	3.0
F ART6C-Acrylics	3.0
F ART10-Art Appreciation	3.0
F ART70-/71 Tc -0.000 Tc3d [(-)1T7 (cr)-2.7 (y)-2.5 (l)-2.5 (i)-2.	5 (cs)]TJ 0 Tc 0 Tw .48Tw .4i002 Tc c3 (

PHOTOGRAPH(&TPHO)

CERTIFICATE OF ACHIEVEMENT

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* demonstrate effective technical proficiency with film and digital media.
- *f* structure visual information to produce images of intermediate level aesthetic quality.
- *f* interpret and produce photographs that communicate intellectually and emotionally.
- *f* demonstratean intermediate knowledge of the history of photography.
- *f* demonstrate an awareness of the influence of photography on the lives of individuals, cultures, and societies.

RequiredMajor Courses **2**1 units)

F	PHO-1- Introduction to Photography	3.0	
F	PHO-2-Beginning Black and White Photography	3.0	
F	PHO-3-Advanced Photography Lab	3.0	
F	PHO-4-Portfolio Photography	3.0	
F	ART12A-Design	3.0	
F	ART70-Graphic Design/Computer Graphics	3.0	
F	ART80-Intro to Digital Photo & Photographic Imaging	3.0	
Major Electives Complete 3units)			
F	ART1A-Art History Survely	3.0	
F	ART1B-Art History Survey II	3.0	
F	ART77-Digital Video, Editing and Production	3.0	

TOTAL24 UNITS

FINANCIAL AID

Paying for the cost of a college education requires a partnershipamong parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stud ents/fa/net-price calculator.html

PROGRAM

f Associate in Science for Transfer (ATS).

DESCRIPON

Physics is the natural science involving a general analysis of na conducted in order to understand how the universe behaves. It involves the study of matter and its motion through space and time, along with related concepts such as energy and fordeysies overlaps with many interdisciplinary areas such as astrono biology, chemistry, and geology. Physics also makes signif contributions through advances in new technologies that arise from theoretical breakthroughs. Research in physics includes the following specialty areas: condensed matter physics; atomic, molecular, and optical physics; particle physics; astrophysics; geophysics biophysics. Some positions for which four-year graduates in physics are qualified are in research, teaching, engineering, medicine, and industry.

The Assoiate in Science degree in Physics for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate degree programs at a California State University (CSU) campus or detailed requirements for individual four ear institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORIES NOT AS:

- f Aerodynamicist
- f Astro Physicist
- f Chemical Physicist
- f Computer System Engineer
- f Geophysicist
- f Laboratory Technician
- f Medical Physicist

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSHE RESOURCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

P(ea)h311 Td [(C)1.1 ((d)638 Tm [(S.7/MC

PHYSIC(SAST.PHY)

ASSOCIATE IN SCIENCE RORSFER

RequiredMajor Courses 24 units) F PHY-4A-General Physids/Mechanics F PHY-4B-General Physids/Electricity and Magnetism F PHY-4G General Physids/Waves, Heat, Light Sound and Modern Physics4.0 F MAT-3A – Analytic Geometry and Calculus I F MAT-3B–Andytic Geometry and Calculus II F MAT-3C–Analytic Geometry and Calculus III Major Electives None Required)

F	CHM-1A–General Chemistry I	5.0
F	CHM-1B-General Chemistry II	5.0
F	CSS-4 Introduction to Scientific Programing	4.0
F	MAT-4-Linear Algebra	3.0
F	MAT-5-Differential Equations	3.0

SUBOTAL24 UNITS

4.0

4.0

4.0

4.0

4.0

General Education Required Courses

Students must complete one of the following General Education Plans:

CSUGE (seepage 78)	39 units
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IGETQseepage 80)	37 units
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Students can doubleount requiredcourses and courses for General Education Ele••\$-dAÁ*NIGE

POLITICAL SCIENCE

PROGRAM

f Associate in Arts for Transfer (A.A.-T)

DESCRIPTION

The Associate in **Asr** in Political Sience for Transfer allows students to focus their major course workend required electives in a social science concerned with the description and analysis of political, and especially governmental, institutions and processes. Increasingly, the emphasis is placed on how governments deal with specific policy problems such as war and peace, poverty, crime, education, energy, pollution, or inter-group relations, and on the factors that affect these problems. The study of political science provides one with the concepts, theories and methods necessary to analyze these problems scientifically.

Fields for which BA graduates in political science are qualified are government work in the legislative or executive branches, the legal field as an attorney or paralegathe military as an officer, a professional sales representative, or marketing professional.

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- f Attorney
- f Government Employee
- f Marketing Professional
- f Military Officer
- f Paralegal
- f Professional Sales Representative

PSYCHOLOGY

PROGRAMS

f Associate inArts for Transfer (AA.-T)

DESCRIPPON

Psychology it se scientific discipline concerned with the study of the mind. It is a natural and a social science concerned with the study of human behavior. As such, it is a broad discipline which involves both pure science and practical application of science to **era**ttof everyday living.

The Psychology program offers two associate degrees: The AA degree (associate degree in psychology) and the TAAlegree (associate degree in psychology for transfer). The AA degree requires calculus along with more psychology courses (as opposed to the AlAgree), and is recommended for students wishing to transfer to a University of California (UC) campus. The $-\pi$ Aprovides a clearly articulated curriculum for students who wish to transfer to a California State University (CSU) mapus. All students should meet with a counselor to determine which program would be most beneficial for their goals and to determine which courses are required for them to transfer to their desired university.

The program provides students with a basic und

ASSOCIATE IN ARTOS TRANSFER

Program OutcomesUpon successful completion of this program a student will be able to:

- *f* compare and contrast the major concep**tis**eoretical perspectives, empirical findings, and historical trends in psychology.
- *f* evaluate basic research methods in psychology, including research design, data analysis, and interpretation.
- *f* demonstrate critical thinking an**s**keptical inquiry, and use the scientific approach to solving problems related to behavior and mental processes.
- *f* apply psychological principles to personal, social, and organizational issues.

RequiredMajor Courses (4 units)	
F MAT-13–Elementary Statistics	4.0
F PSY-2-General Psychology	3.0
F PSY-9 Research Methods in Psychology	4.0
F PSY-10 Introduction to Biological Psychology	3.0
Major Electives Course (complete3 units)	
F PSY-14 Child Psychology	3.0
F PSY-25 Developmental Psychology – Lifespar	n 3.0
Major Electives Course Complete3 units)	
F PSY-6-Social Psychology	3.0
F PSY-15-Human Sexuality	3.0
F PSY-22 Abnormal Psychology	3.0
5	SUBTOTAL 20 UNITS

General Edcation – Required Courses

Students must complete one of the following General Education Plans:
CSUGE (seepage78)
IGET (seepage80)39 units
37 units

Students can doubleount requiredcourses and courses for General Education Electives (Courses Numbere **@9**) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNST

In order b earn this degree, students must complete the Associate Degree for Transfer Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University GE – Breadth Requirement{CSU GEBreadth)
 - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- 2. Obtainment of a minimum grade point average of 2.0

ADTsinclude (AAT) and (AST) degrees. The law authorizing these degrees also requires that students must earn a "C" or better in all courses required for the major or area of emphasis A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

PROGRAM

Associate in Science for Transfer (A.S.-T)

DESCRIPTION

The Associate in Science in Public Health Science for Transfer degree prepares leaders who promote community health, prevent disease, and improve environmental conditions in which people can be healthy. The Associate in Science in Public Health Science for Transfer degree is interdisciplinary in nature and prepares students for a variety of careers in schools, non-profit organizations, government agencies, hospitals, and wellness programs.

The Associate in Science in Public Health Science for Transfer degree provides a clearly articulated curricular track for students who wish to transfer to baccalaureate degree programs at a California State University (CSU) campus in areas such as Public Health, Health Science, Kinesiology with a Health Education or a Health and Wellness Promotion concentration, Collaborative Health and Human Services with Community Health option, and related fields. For detailed requirements for individual four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

Community Health Educator Community Outreach Coordinator Diet Counselor Environmental Advocate Events Coordinator Family Planning Counselor Grant Writer Head Start Health Specialist Health Journalist Health Resource Specialist Public Health Inspector Social Services Coordinator Teen Outreach Coordinator Youth Educator Wellness Consultant

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.org – CSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

ASSOCIATE IN SCIENCE FOR TRANSFER

Program Outcomes: Upon successful completion of this program a student will be able to:

describe social, political, and economical issues that impact public health and healthcare delivery systems in the United States. explain how functional anatomy and physiological regulations affect health and wellness.

apply basic epidemiological principles used to study patterns of disease and injury among diverse populations.

explain how social, behavioral, cultural, and environmental factors impact the health status of individuals and populations.

demonstrate effective communication and problem-solving skills necessary for addressing contemporary public health issues.

Required Major Courses (30-31 units)

SY-15 – Human Sexuality DC-1 – Introduction to Sociology	3.0 3.0
5	
	0.0
	3.0
5	3.0
ES-2 – Health and Social Justice	3.0
CO-5 – Principles of Microeconomics	3.0
CO-1 – Principles of Macroeconomics	3.0
ctives (Complete 3 units)	
SY-2 – General Psychology	3.0
1AT-13 – Elementary Statistics	4.0
ES-1 – Introduction to Public Health	3.0
ED-2 – Individual Health and Wellness	3.0
HM-22 – The Science of Chemistry I	4.0
5	0.0
05	5.0
, , ,	4.0
3 3 65	2.0
•	3.0
	4.0
	IO-5 – Human Anatomy IO-6 – Introductory Physiology IO-6L – Physiology Laboratory IO-10 – General Biology HM-1A – The General Chemistry I R HM-22 – The Science of Chemistry I ED-2 – Individual Health and Wellness ES-1 – Introduction to Public Health IAT-13 – Elementary Statistics SY-2 – General Psychology CO-1 – Principles of Macroeconomics CO-5 – Principles of Macroeconomics ES-2 – Health and Social Justice ES-3 – Drug, Health and Society UTR-1 – Nutrition

General Education – Required Courses

Students must complete one of the following General Education Plans:		
CSU-GE (see page 78)	39 units	
IGETC (see page 80)	37 units	
Students can double-count required courses and courses for General Education		
Electives (Courses Numbered 1-99) required when degree units plus GE units total fewer than 60.		

TOTAL: 60 UNITS

In order to earn this degree, students must complete the Associate Degree for Transfer Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University GE – Breadth Requirements (CSU GE-Breadth).
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- 2. Obtainment of a minimum grade point average of 2.0

ADTs include (AA-T) and (AS-T) degrees. The law authorizing these degrees also requires that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

RESPIRATORY CARE

PROGRAM

Associate of Science (A.S.)

DESCRIPTION

RESPIRATORY CARE (AS.RCP)

ASSOCIATE OF SCIENCE

Required General Education Courses: MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO PROGRAM (22-23 units)

Required Major Courses (12 units)

Required Major Courses (After acceptance into the program) (44 units) 1^{st} SEMESTER – 10 units

2nd SEMESTER – 12.5 units

3rd SEMESTER – 11.5 units

4th SEMESTER – 11 units

Respiratory Care Success Courses: (recommended, not required)

SUBTOTAL: 44 UNITS

TOTAL: 78 UNITS

SOCIAL JUSTICE (AAT.SJ)

ASSOCIATE IN ARTS FOR TRANSFER

Required Major Courses (9 units)

ETH-4 – Chicanx Culture

ETH-5/POL-5 – Chicano Politics

SJS-20 – Introduction to Social Justice	3.0		
SJS-22 – Women's Studies	3.0		
ETH-1 – Introduction to Ethnic Studies	3.0		
ETH-56 – Ethnic Studies Cinema - Silenced Voices	3.0		
Major Electives (Complete 9 units)			
ETH-1 – Introduction to Ethnic Studies	3.0		
ETH-2 – Chicana/o/x Leadership	3.0		
ETH-3 – Introduction to Chicanx Studies	3.0		

3.0

3.0

PROGRAM

x Associate in Arts for Transfer (A.A.-T)

DESCRIPTION

Sid g is the sientifi c study of human behavior in siety. It uss a variety of research and theoretial perspectives to analyze and explain human sial behavior and sial chang. Sid g students examine a wide rang of human interactions ind uding marriag and family units or ime and deviane, of ture and sial chang, gop pressand interactions having to dowith d as rae and gender; diversity and g balization, sial stratifiation and mbility and sial movements Program or so will help develop the students ability to examine the bracker on nections between personal life, public is seand sial structure. Sid g provides a valuable major for a diverse rang of areer paths ind uding teaching sial wk, probation of fier, emplyment on sling urban planning and others

LEADS TO CAREER OPPORTUNITIES SUCH AS:

Advag Cas Managment City PI anning Cansl inq Consiner Resarcher Demraphe rs Human Regres Human Srvies Information Surving LawEnforement Manae ment Markt Regarch Mental Heal th Servies No-Prfit Pd ie Offier Pd ig Anal ysis Proat in Offier Proram Devel poment **PrgamingAdministration**

PublicAdministration PublicRelations Resarchers Sales SalWk Teacher Teaching Urban Planner

TRANSFER PREPARATION

Cores that fulfill major requirements for an axiate degree may differ from the needed to prepare for transfer. Studentschop I an totransfer to a for-year d leg or university should schedule an appointment with a Hartnel I Cd leg onslor to devel op a student eduation plan before beginning their progam.

TRANSFER RESOURCES

WASST.org-CD and UC Artiol ation Agreements and Najor Barch Engine

CS System Information http://m2.al state.edu

FINANCIAL AID

Paying for the of of a d leg educ ation req uiresa partnership among parents, students and the d leg. As the of of higher eduation of tinues to ris e ant yo to how that Hartnel I Cd leg offers a full array of financial aid programs, federal len programs, and fee mivers

https//whart nell.edu/stude nts/fa/net-prie -alolato.html

SOCIOLOGY (AAT-SOC)

ASSOCIATE IN ARTS FOR TRANSFER

·F	ed Major Courses (10 units) ©C-1 -Introduction toxid g ©C-5 -Introduction toxial Problems MAT-13 -Elementary Statistis	3.0	3.0 4.0	
Major	Major Electives A Courses (Complete 6 units)			
F	ADJ-51 -Crimind g		3.0	
F	PS-6-Sial Pythol g		3.0	
F	℃-20 –Sid gof Gender and Siety	3.0		
F	℃-41 Harriag and the Famil y		3.0	
F	℃-42 -£id g f Min r ity Rel ations	3.0		
Major Electives B Courses (Complete 3 units)				
F	℃-15- i d gflmigat	i n & Identity in ⊮	3.0	
F	℃-30 –ád g f Latina/oin US&ety	3.0		
			SUBTOTAL: 19 UNITS	
General Education – Required Courses Students must complete one of the following General Education Plans:				
	J-GE (see page 78)	0	inits	

a c1 0 002298 00229882502922d (Studecan)ur

Re7 (cou1 ()-85 age cou)ur Geneloc Relaa 1 0 M

SPANISH

PROGRAMS

f Associate in Arts

SPANISH(AAT.SPA)

ASSOCIATE IN ARTOS TRANSFER

RequiredMajor CoursesComplete5 units)

•		5.0
	SPA-1-Elementary Spanish	5.0
F	SPA-1S Elementary Spanish 1 for Spanish Speak	kers 5.0
F	SPA-1X Elementary Spanishfor Chicano Sciences	5.0
Requir	edMajor Courses©omplete5 units)	
F	SPA-2-Elementary Spanish	5.0
F	SPA-2S Elementary Spanish 2 for Spanish Speal	kers 5.0
	SPA-2X – Ementary Spanish for Chicano Student	
Requir	edMajor Courses©omplete5 units)	
F	SPA-3-Intermediate Spanish 1	5.0
F	SPA-3S -nlermediate Spanish for SpanishSpeake	rs 5.0
Requir	edMajor Courses©omplete5 units)	
F	SPA-4-Intermediate Spanish	5.0
F	SPA-4S Intermediate Spanis for Spanis Speake	rs 5.0
Major	Electives(Complete3 units)	
F	ANT-20 -Mesoamerica: Cultures and Oizzations of Mexico and Ce	ntral Amerata
F	ETH4 –Chicanx Culture	3.0
F	HIS6-History of Mexico	3.0
F	HIS49B - Chicano History	3.0
	s	SUBTOTAL 23 UNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

CSUGE (seepage 78)	39 units
IGET⊄seepage 80)	37 units

Students can doubleount requiredcourses and courses for General Education Electives (Courses Numbere **@9**) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNST

Students placing out of Spanish 1, 1S, or 1X are not awarded units for that course; therefstudent will need to take additional units from the elective list to complete the req.7 (I)3.4 (e)-1 (t)-4 (e)5mpe.6 <75>-0toor7laci lec7 (o)1.3 (c)4. (w)2.7 (i)3.g (c)4.ro tnt2.7 (i)3.3 (I)6r

SPANISH (AA.SPA) ASSOCIATE OF ARTS

RequiredMajor CoursesComplete5 units)

- F SPA-1-Elementary Spanish 5.0
- F SPA-1S Elementary Spanish 1 for Spanish Speakers 5.0
- F SPA-1X -

STUDIO ARTS

PROGRAM

f Associate in Artsfor Transfer (AA.-T)

DESCRIPTION

Art is the study of communicating concepts and ideas visually. Associate in Arts in Studio Arts for Transfer degree provides students with an introductory foundation in art principles and practices while providing a clearly articulated curricular track for students who wish to transfer to baccalaureate degree programs at a California State University (CSU) campus. This degree provides the lower division art courses required at many CSUs while exposing students to the core principles of the studio arts field. Selected courses will include study in art history and studio practice in the creation of both twand three-dimensional works of art. For detailed requirements for individual fouryear institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORIES NOT AS:

- f Art Buyer
- f Art Critic
- f Art Director
- f Art Exhibition Coordinator
- f Art Teache
- f Ceramic Artist
- f Costume and Mask Designer
- f Display Designer
- f Gallery Owner
- f Illustrator/Designer
- f Impressionist
- f Jewelry Designer
- f Magazine Cover Artist
- f Painter
- f Set Designer
- f Sculpture Artist
- f Silkscreen Artist
- f Sketch Artist

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed toprepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment witha Hartnell College counselor to develop a student education plan before Silk Smagegoet/bel

STUDIO ART(SART)

ASSOCIATE IN ARTOS TRANSFER

Required Major Courses (5 units)

F	ART1A-Art History Survey I	3.0
F	ART1B-Art History Survey II	3.0
F	ART3 – Drawing and Composition	3.0
F	ART12A–Design	3.0
F	ART13-Three-Dimensional Design	3.0
Major	Electives Complete 9 units	
F	ART6A–Watercolors & Gouache	3.0
F	ART15A-Ceramics	3.0
F	ART70-Intro to Graphic Design & ComputGraphics	3.0
F	ART71-Introduction to 2D Digital Illustration	3.0
F	ART72–Introduction to Digital Art	3.0
F	PHO-1–Introduction to Photography	3.0
	AND	
	PHO-2-Beginning Black and White Photography	3.0

SUBIOTAL 24 UNITS

General Education Required Courses

Students must complete one of the following General Education Plans:

CSUGE (seeuf -0.003 Tc 0366679fuf -0.003 Tc 0.87w 1.607 0 Td (1.607 0 Tg022 0 Td ()Tj -0.003 Tc Tf 6l<7

PROGRAMS

f Associate in Art**s**or Transfer (AA.-T)

DESCRIPTION

ASSOCIATE IN ARTS FOR TRANSFER (AA

The Associate in Arts degree in Theatre Arts for Transfer provides a clearly articulated curricular track for students who wish to transfer baccalaureate Theatre Arts degree programs at a California State University (CSU) campus. This degree provides the lower division theatre major courses required at many CSUs while exposing students to the core principles of the theatre arts field. For detailed requirements for individual forear institutions, students should contact the transfer institution and model a counselor for specific transfer course requirements in their major. The Hartnell College Theatre Arts ATAdegree is unique in that a professional theatre company is in residence at Hartnell College: The Western Stage. The collaboration between Hartnell College and The Western Staiges students the possibility of learning their cravithin a professional context. Courses are designed for students interested in pursuing theatre as a major or as a career. Career options include actor, teacher or professor, director, agent, announcer, casting director, critic, or model. Careers with a technical emphasis include theatre technician, concert venue technician, theme park technician, stage manager, designer, art director, facilities manager, or technical director.

ASSOCIATE IN ARTS

This degree program is designed for those interested in seeking employment in a theatrical, and/or cinematic environment, or for students desiring to complete major preparation coursework for transfer to a forear Theatre Arts and/or Film, Television, dif Electronic Media oriented Degree Program. The Hartnell College Theatre Arts program is unique in that a professional theatre company is in residence at Hartnell College: The Western Stage. The collaboration between Hartnell College and The Western Bage gives students the possibility of learning their craftprofessional context.

LEADS TO CAREER OPPORIES NOT AS:

- f Actor
- f Agent
- f Announcer
- f Art Director
- f Casting Director
- f Concert Venue Technician
- f Critic

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESPUCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information http://www2.calstate.edu

FINANCIAL D

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THEAREARTS (AT.THA)

ASSOCIATE IN ARTOS TRANSFER

Require	d Major CoursesC(complete 6 units)	
F	TAG1 –Introduction to Theatre	3.0
	OR	
	TAG3 –History of Theatre	3.0
F	TAG10 – Acting I– Acting for Everyone	3.0

Required Major Course Complete 3 units)(F TAC

PROGRAMS

f Associateof Arts (A.A.)

DESCRIPTION

ASSOCIATE IN ARTS

This degree program is designed for those interested in seeking employment in a theatrical, and/or cinematic environment, or for students desiring to complete major preparation coursework for transfer to a forear Theatre Arts and/or Film, Television, dif Electronic Media oriented Degree Program. The Hartnell College Theatre Arts program is unique in that a professional theatre company is in residence at Hartnell College: The Western Stage. The collaboration between Hartnell College and The Western Staginges students the possibility of learning their craft thin a professional context.

LEADS TO CAREER OPPORIES NOT CHAS:

f Actor

f Designer

- f Agent
- f Announcer
- f Art Director
- f Casting Director
- f Concert Venue Technician
- f Critic

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESPUCES

www.ASSIST.orgCSU and UC Articulation Agreements and Major Search Engine

CSU System Information <u>http://www2.calstate.edu</u>

FINANCIAL D

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

https://www.hartnell.edu/stude nts/fa/net-price-calculator.html

THEATRE ARTS AND CINE

ASSOCIATE OF ARTS

Require	ed Major Courses (Complete 🕼 tits)			
F	TAG1 –Introduction to Theatre	3.0		
	OR			
	TAG50 –Introduction to Film	3.0		
F	TAG3 – History of Theatre	3.0		
F	TAG10 –Acting I	3.0		
F	TAG2 –Script Analysis	3.0		
	OR			
	TAG53 – Playwriting and Screenwriting	3.0		
F	TAG30 – Fundamentals of Theatre Design	3.0		
Required Major Courses (Completeuaits)				
F	Production TAC -17, 20, 21, 22, 24, 25, 53, 54	3.0		
	OR			
	Technical DesignTAG26, 27, 28, 29, 40, 91	3.0		
CHOOSE (ENAREA OF EMPHASIS BELOW			
	THEATRE EMPHASIS			
Major E	Major Electives Complete6 units -NOT TAKEN IN REQUIRED MAJOR COURSES			
F	TAG2 – Script Analysis	3.0		
F	TAG7/ETH-7 -Chicano Theatre	3.0		
F	TAG11 –Acting II	3.0		
F	TAG15 – Acting for the Camera	3.0		
F	TAG23 –Introduction to Theatre for Social Change	3.0		
	TA@oiee (So)1.3 0 Tad@(Ac)4 (t)2.7 anhor2.7 (h)-n3.3 w4 (n)-0) Td [(Sc)4 (rt4 (ISo)1.3)2.7 g II		

THEATRE PERFORMANCE (NCCTIPER)

PROGRAM

f Certificate of Conpletion

DESCRIPTION

This noncredit certificate prepares students with ba**tsich**nical, aesthetic, and collaborative skills to participate as a competent member of the theatre ensemble in production. Course offerings introduce the students to rehearsal and production concepts such as physical and vocal techniques, theatre history, aesthetics, and production roles, responsibilities, and techniques,

THEATRPRODUCTION (NCCT.TRO)

PROGRAM

f Certificate of Copletion

DESCRIPTION

This noncredit certificate prepares students with ba**tsich**nical, aesthetic, and collaborative skills to participate as a competent member of the theatre ensemble in production. Course offerings introduce the students to rehearsal and production concepts such as physical and vocal techniques, theatre history, aesthetics, and production roles, responsibilities, and techniques, and direct applications within a live theatrical production environment.

PROGRAM GOALS AND OBJECTIVES:

The Noncredit Theatre Production Certificate of Completion will provide students with vocational training in a production environment, helping students develop professional competency in acting attractal production for professional, educational, communitized, and/or regional theatre environments, or for the related areas official television, general entertainment and/orhospitality. Working with resident professional theatre company, The Western Stage, students will hattree opportunity to learn their craft within a professional context.

Program O(We)3 (s3 Tc -0.001 Tw 0 - (i5.5i)2.5 (y1 (a(w)6.4 ()4 (c) i)3.5 om.9. (s)1 0 Tw 20.461 03i)2.5 (y1 (: /P f 0.223 Tw -

THEATRERODUCTION AND PERFORMANCE (NCCT.TRPE)

PROGRAM

f Certificate of Copletion

DESCRIPTION

This noncredit certificate prepares studentwisth basic technical, aesthetic and collaborative skills to participate as a competent member of the theatre ensemble in production. Course offerings introduce the students to rehearsal and production concepts such as physical and vocal techniques, theatr history, aesthetics, and production roles, responsibilities, and techniques, and direct applications within a live theatrical production environment.

PROGRAM GOALSIA OBJECTIVES:

The Noncredit Theatre Production and Theatre Performance Certificate of Completion will providestudents with vocational training in a production environment, helping students develop professional mpetency in acting and theatrical production for professional, educational, commubilityed, and/or regional theatre environments, or for the related areas of film, television, general entertainment and/brospitality. Working with resident professional theatre company, The Western Stage, students will theve opportunity to learn their craft within a professional conte

Program Qutcomes Upon completion of the Noncredit Theatre Production and Theatre Performancertificate of Completion, students will:

- demonstrate proficiency in the acting techniques in scene work and memorization.
- conduct preliminary researchof the character, period, and/or production history associated with the chosen ensemble play.
- demonstrate the organizational skills necessary to rehearse and perform within afully-realized ensemble play.
- effectively collaborate as a contributing memberæ
 production team. tS

PROGRAMS

- f Associateof Science (A.S.)
- f Certificate of Achievement

DESCRIPTION

The Welding Technology program provides students with enand advancedevel employment skills in welding and metalworkin techniques that are relevant to the needs of local employers and industries.

The program provides training in a variety of welding methods including SMAW, GTAW, GMAW and FCAW. Advanced level courses in plate an pipe welding prepare students for American Welding Society welding certification testing. The program offers courses in sheet me fabrication and welding fabrication that focus on print reading and metalworking skills. In addition, courses are offered in architectural/ornamental ironwork fabrication, as well as toolmaking and hardfacing techniques that are used in the construction and agriculture industries.

Job opportunities for students in this area include machine shop welder, autobody worker, sheet metal worker, structural and ironwork welder, maintenance welder, pipe welder, and agricultural welding a fabrication.

As a result of ongoing changes in technology, the need to expand competencies, and changing transfer requirements, certificate and degree requirements may also change. If you note changes in degrees or certificate requirements, or if courses are not offered in a particular semester, please consult with a counselor or faculty on how best to complete the program in which you are enrolled.

LEADS TO CAREER OPPORIES NOT AS: f Aerospace f Agriculture f Automotive Manufacture and Repair f Chemical Processing f Construction f Cutter f General Manufacturing f Oil and Gas Extraction f Plumbing and Pipe Welding f Underwater Welding f Welder

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who po -ì%•)7 ÝÓî- # À @w@Ò'

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ASSOCIATE OF SCIENCE

Required Courses (28hits)

F CMA74–Industrial Print Reading and Drawing	3.0
F MFGT110-Industrial Safety	2.0
F WLD-150-Introduction to Arc Welding	3.0
F WLD-151–Introduction to GTAW/TIG Welding	3.0
F WLD-152-Sheet Metal Fabrication	2.0
F WLD-153- Welding Fabrication	3.0
F WLD-154-Advanced Arc Welding	3.0
F WLD-155-Ornamental Ironwork	2.0
F WLD-156-Toolmaking	2.0
F WLD-157-Pipe Welding	3.0
F WLD-158-Hardfacing and Surfacing	2.0
RestrictedMajor Electives(Complete 9 unit)	
F CMA75–Engineering Drawing/Solid Works	3.0

- F CMA81–Computer Aided Drafting and Design 3.0
- F MFGT130-Introduction to Metal Fabrication 3.0
- F MFGT150-Introduction to Industrial Electricit§1