HARTNELL COLLEGE DEGREES AND CERTIFICATES

Program	Associate Care	Program	7. Sociate 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:	- 7.5 .	Intersegmental General Education Transfer (IGETC)	- 7.5
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
nformation Processing	■ AS ■	Music for Transfer	■ AA-T
Chemistry for Transfer	■ AS-T	Music	■ AA ■
Chicanx Studies	■ AA	Nursing:	_ /01 -
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:	– A3 1	Photography	■ AA
Computer Science Option	■ AS ■	Physics for Transfer	■ AS-T
Cisco Certified Network Associate		Political Science for Transfer	■ AA-T
Cybersecurity	1 1	Psychology for Transfer	■ AA-T
Network and Security Option	■ AS ■	Public Health Science for Transfer	■ AS-T
Technical Support		Respiratory Care	■ AS
Digital Web and Mobile Development	■ AS	Social Justice for Transfer	■ A3 ■ AA-T
Mobile Development Option	A3	Sociology for Transfer	■ AA-T
Web Development Option		Spanish for Transfer	■ AA-T
Construction Management and Architecture	■ AS	Spanish	■ AA
CSU/General Education Breadth		Studio Arts for Transfer	■ AA-T
Digital Arts	■ AA ■	Theatre Arts for Transfer	■ AA-T
Early Childhood Education for Transfer	■ AA ■	Theatre Arts and Cinema	■ AA-1
Early Childhood Education for Transfer	■ AS ■	Theatre Performance	- ^^
Economics for Transfer	■ A3 ■	Theatre Production	
Elementary Teacher Preparation for Transfer	■ AA-T	Theatre Production and Performance	
Emergency Medical Technician	■ AA-1	Welding Technology	■ AS

Associate Degree (AA or AS) programs allow students the benefits of a general college education and the option of choosing occupational training, liberal arts, or concentration in a discipline in the College. The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) are intended for students who plan to transfer and complete a bachelor's degree in a similar major at a CSU campus. In addition, Hartnell College offers a variety of programs designed to develop and upgrade vocational proficiency and for which Certificates of Achievement are offered.

Students must submit a Petition for Associate Degree/Certificate of Achievement to be evaluated for eligibility to be awarded a Degree or Certificate. Deadlines for filing the Petition are noted in the Schedule of Classes and are posted in the Admissions and Records Office. To be awarded a Certificate of Achievement from Hartnell College, it is required that at least half of the required number of units be taken at Hartnell College.

Not all courses required for listed programs may be offered during this catalog cycle.

Please contact a counselor for current Information (831) 755-6820.

ADDICTION STUDIES

PROGRAMS

- Associate of Arts (A.A.)
- Certificate of Achievement



The Hartnell College Associate Degree in Addiction Studies provides students with the academic preparation needed for employment in the substance abuse field. The curriculum is designed to meet the California Association of Alcoholism and Drug Abuse Counselors (CAADAC) requirements and pending legislative regulations requiring 350 hours of approved alcohol and drug classroom education, 45 hours of supervised practicum and 255 hours of supervised work experience.

Students who wish to continue their course of study to a 4-year setting are recommended to complete the Associate of Arts Degree program, which includes both the general education requirements and major courses in Addiction Studies. Completion of additional requirements for transfer may be required. It is recommended that students take AOD courses in numeric order.

AOD 1-6 and 11 must be completed before enrolling in AOD 10 (Chemical Dependency Practicum Seminar) and AOD 99 (Practicum in Chemical Dependency).

Career opportunities for certified Alcohol and Drug Counselors include: counselors in social model county residential treatment programs; counselors in pre-treatment, inpatient, outpatient, and aftercare programs; counselors in hospital-based chemical dependency community prevention and education programs; recovery/relapse prevention counseling in the private sector; counselors in recovery home/sober living environments. California state laws require that individuals who are providing services in an alcohol or drug abuse setting be registered by an accredited agency that is recognized by the Department of Health Care Services. Students may obtain a registration manual, which contains information on academic requirements, procedures, forms, examination schedules, and fees by going to the CCAPP website (https://www.ccapp.us/) and clicking on "certification" where an order form and other information are provided.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Community Prevention & Education Counselor
- Mental Health Counselor
- Probation Officer
- Social Worker
- Substance Abuse Counselor in residential treatment programs, pre-treatment, inpatient, outpatient, and aftercare programs
- Therapist



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

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ADDICTION STUDIES (AA.ADD)

ASSOCIATE OF ARTS

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

- demonstrate proficiency in each of the core functions and performance domains of substance abuse counselors.
- function as ethical and competent entry-level substance abuse counselors, with an understanding of and sensitivity to the diverse populations which they will serve.

Required Major Courses (31 units)		
☐ AOD-1 – Fundamentals of Chemical Dependency	3.0	
☐ AOD-2 – Pharmacology and Physiology of Alcohol and Other Drugs	3.0	
☐ AOD-3 – Introduction to Case Management and Treatment Planning	g 3.0	
☐ AOD-4 – Counseling Diverse Populations	3.0	
☐ AOD-5 – Legal/Ethical Considerations and Professional Growth	3.0	
AOD-6 – Prevention, Education, and Relapse Prevention	3.0	
☐ AOD-9 – Co-Occurring Disorders	3.0	
☐ AOD-10 – Chemical Dependency Practicum Seminar	3.0	
☐ AOD-11 – Individual, Group, and Family Counseling	3.0	
☐ AOD-99 – Practicum in Chemical Dependency	4.0	
Major Electives (Complete 9 units)		
PSY-2 – General Psychology	3.0	
PSY-6 – Social Psychology	3.0	
PSY-22 – Abnormal Psychology	3.0	
PSY-33 – Personal and Social Adjustment	3.0	
PSY-41 – Psychology of Human Relations	3.0	
SOC-1 – Introduction to Sociology	3.0	
SOC-41 – Marriage and the Family	3.0	
		CURTOTAL 40 UNITO
		SUBTOTAL: 40 UNITS
General Education – Required Courses		
Students must complete one of the following General Education Plans:		
HCCD GE (see page 76)		
☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning		
Arts and Humanities		
Social and Behavioral Sciences		
Physical and Biological Sciences		
☐ Ethnic Studies ☐ Lifelong Learning and Self Development		
Lifelong Learning and Sen Development		SUBTOTAL: 23 UNITS
Students can double-count required courses and courses for General Education	•	JODIOTAL 23 UNITS
■ Electives (Courses Numbered 1-199) required when degree units plus GE units total fewe	r than	60.

TOTAL: 60 UNITS

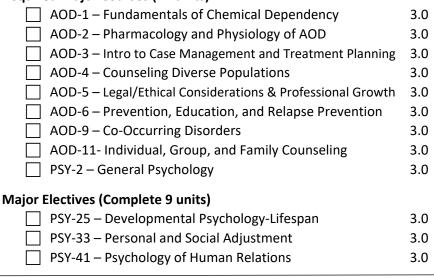
ADDICTION STUDIES (CT.ADD)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate proficiency in each of the core functions and performance domains of substance abuse counselors.
- function as ethical and competent entry-level substance abuse.

Required Major Courses (27 units)



TOTAL: 36 UNITS

FINANCIAL AID

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ADMINISTRATION OF JUSTICE

PROGRAMS

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

DESCRIPTION

The Associate in Science Degree in Administration of Justice for 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 lower division Administration of Justice major courses required at many CSUs while exposing students to the core principles and practices in the field of Administration of Justice. The AS-T degree will enable students to develop a strong foundation in the theory and practice of law enforcement and law enforcement investigation, the origin and application of criminal law, the various components of the criminal justice system, the structure of the various court systems, and trial process. 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.

The Administration of Justice Associate Degree program is particularly suited for students seeking employment in criminal justice and paralegal/legal assistantship, and it incorporates advanced career training, as well as supporting transfer. Criminal justice courses have a broad focus and encompass effective patrol services, the prosecution and defense of criminal offenders, and the incarceration process. Paralegal/legal assistantship courses overview the preparation of cases for court under the supervision of an attorney. The Associate degree in Administration of Justice offers specialized electives to enhance a student's career opportunities.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Attorney
- Correctional Officer
- Criminal Investigator
- Deputy Sheriff
- Detective
- Law Enforcement Agent
- Military Officer

- Parole Agent
- Paralegal/Legal Assistant
- Police Officer
- Probation Officer
- Public Defender
- Social Worker



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

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ADMINISTRATION OF JUSTICE FOR TRANSFER (AST.ADJ)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- analyze the United States legal system, describing the sources of law, the branches of government, and the federal and state course
- analyze cases to ascertain legal precedents and apply them to hypothetical facts patterns.
- select and apply the appropriate peacekeeping strategy in a multicultural community.

Required Major Courses (6 units)

ADJ-3 – Concepts of Criminal Law	3.0

ADJ-1 – Introduction to Administration of Justice

Major Electives A (Complete 6 units)

ADJ-2 – Community Relations & the Justice System	3.0
ADJ-4 – Criminal Evidence	3.0
☐ ADJ-5 – Criminal Court Process	3.0
ADJ-8 – Criminal Investigation	3.0
ADJ-10 – Juvenile Procedures	3.0

Maj

jor Electives B (Complete 6 units)	
ADJ-10 – Juvenile Procedures	3.0
ADJ-51 – Criminology	3.0
☐ MAT-13 – Elementary Statistics	4.0
SOC-1 – Introduction to Sociology	3.0
PSY-2 – General Psychology	3.0

SUBTOTAL: 18 UNITS

3.0

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:

- 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 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.
- Obtainment of 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.

ADMINISTRATION OF JUSTICE (AS.ADJ)

ASSOCIATE OF SCIENCE

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

- analyze the United States legal system, describing the sources of law, the branches of government, and the federal and state court systems.
- evaluate judicial opinions to determine legal precedents and apply them to hypothetical fact patterns.
- recognize constitutional principles present in the prosecution and defense of criminal offenders.
- describe the incarceration process.
- demonstrate effective law enforcement report writing skills.

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.

- compare and contrast legal and illegal narcotics and dangerous drugs.
- select and apply the appropriate peacekeeping strategy in a multicultural community.

Criminal Justice	Complete 3 courses from ADJ-8, ADJ-10, ADJ-30, ADJ-33, ADJ-51
Paralegal/Legal Assistant	Complete ADJ-25, ADJ-34, and ADJ-36; complete as a general elective BUS-18 Legal Environment of Business

Students who have official college transcripts from an approved accredited college proving they have successfully completed a California POST Basic Police Academy, or official documents proving successful completion of a California Basic Correctional Officer Academy or a California Highway Patrol Academy shall receive credit for ADJ 1 and all major elective courses necessary for the Administration of Justice Degree program.

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.

Required Major Courses (21 units)		
ADJ-1 – Introduction to Administration of Justice	3.0	
ADJ-2 – Community Relations & the Justice System	3.0	
ADJ-3 – Concepts of Criminal Law	3.0	
ADJ-4 – Criminal Evidence	3.0	
ADJ-5 – Criminal Court Process	3.0	
ADJ-11 – Law Enforcement Report Writing	3.0	
ADJ-21A – Narcotics and Dangerous Drugs	3.0	
Major Electives (Complete 9 units)		
ADJ-8 – Criminal Investigation	3.0	
ADJ-10 – Juvenile Procedures	3.0	
ADJ-25 – Introduction to Paralegal/Legal Assistantship	3.0	
ADJ-30 – Sexual Assault Investigation	3.0	
ADJ-33 – Constitutional Law for Criminal Justice	3.0	
ADJ-34 – Civil Litigation	3.0	
ADJ-36 – Legal Research and Writing	3.0	
ADJ-51 – Criminology	3.0	
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 GE (see page 76) ☐ English composition ☐ Oral communication and Critical thinking		
Mathematical Concepts and Quantitative Reasoning		
Arts and Humanities		
Social and Behavioral Sciences		
☐ Physical and Biological Sciences ☐ Ethnic Studies		
Lifelong Learning and Self Development		

TOTAL: 60 UNITS

SUBTOTAL: 23 UNITS

ADMINISTRATION OF JUSTICE (CT.ADJ)

CERTIFICATE OF ACHIEVEMENT

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

- analyze the United States legal system, describing the sources of law, the branches of government, and the federal and state court systems.
- evaluate judicial opinions to determine legal precedents and apply them to hypothetical fact patterns.
- recognize constitutional principles present in the prosecution and defense of criminal offenders.
- describe the incarceration process.
- demonstrate effective law enforcement report writing skills.
- compare and contrast legal and illegal narcotics and dangerous drugs.
- select and apply the appropriate peacekeeping strategy in a multicultural community.

Required Major Courses (21 units)

☐ ADJ-1 – Introduction to Administration of Justice	3.0
ADJ-2 – Community Relation & the Justice System	3.0
ADJ-3 – Concepts of Criminal Law	3.0
ADJ-4 – Criminal Evidence	3.0
ADJ-5 – Criminal Court Process	3.0
☐ ADJ-11 – Law Enforcement Report Writing	3.0
ADJ-21A – Narcotics and Dangerous Drugs	3.0

TOTAL: 21 UNITS

FINANCIAL AID

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ADVANCED AUTOMOTIVE TECHNOLOGY

PROGRAM

Associate of Science (A.S.)



DESCRIPTION

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Automotive Mechanic
- Diesel Service Technician
- Shop Foreman
- Small Engine Mechanic
- Tractor Engine Mechanic
- Transmission Specialist
- 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

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ADVANCED AUTOMOTIVE TECHNOLOGY (AS.AAT)

ASSOCIATE OF SCIENCE

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

- apply knowledge of personal and environmental safety practices to promote a safe work environment and environmental responsibility.
- apply appropriate automotive theories, concepts, principles, methods, and laboratory skills to an automotive repair setting.
- research applicable vehicle and service information using automotive manuals in print and electronic formats, pertinent websites, and diagnostic equipment to identify, analyze, propose correction, and correct problems of all major automotive systems.
- acquire Snap-On industry-recognized certifications.
- demonstrate basic computer literacy skills.

Required	l Major	Courses	(44	units
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AAT-100 – Introduction to Automotive Repair	4.0
AAT-101 – Engine Rebuild	4.0
AAT-110 – Climate Control	4.0
AAT-120 – Electrical and Electronic Systems	4.0
AAT-121 – Electronic Systems and Controls	4.0
AAT-130 – Engine Performance	4.0
AAT-140 – Brake Systems	4.0
AAT-141 – Steering and Suspension	4.0
AAT-150 – Manual Transmissions and Drivetrain	4.0
AAT-151 – Automatic Transmissions	4.0
BUS-43 – Business Info Systems and Info Literacy	4.0
OR	
BUS-50 – Introduction to PC Applications	4.0

SUBTOTAL: 44 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76)

☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities ☐ Social and Behavioral Sciences ☐ Physical and Biological Sciences

Ethnic Studies

Lifelong Learning and Self Development

SUBTOTAL: 23 UNITS

 ${\it Students\ can\ double-count\ required\ courses\ and\ courses\ for\ General\ Education}$

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

TOTAL: 65 UNITS

ADVANCED DIESEL TECHNOLOGY

PROGRAM

Associate of Science (A.S.)



DESCRIPTION

The Advanced Diesel Technology program is designed to provide students with the skills and knowledge required to succeed as technicians in the field of heavy-duty diesel equipment, transportation and agriculture industries, or related industries. The curriculum provides both theoretical and hands-on learning experiences that provide students with the opportunity to apply the learned skills in a variety of different areas, such as transportation, and agriculture equipment. Diagnosis and repair procedures performed on heavy-duty diesel equipment enable students to develop the skills required for placement in the heavy duty diesel technology industry.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Automotive Service Technician and Mechanic
- Bus and Truck Mechanic
- Diesel Engine Specialist
- Diesel Service Technician
- Engine Builder
- Industrial Repair
- Locomotive Service and Repair
- Parts Manager
- Retail Service Technician
- Service Advisor
- Shop Manager
- Specialty Shop Technician

TRANSFER PREPARATION

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ADVANCED DIESEL TECHNOLOGY (AS.ADT)

ASSOCIATE OF SCIENCE

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

- accurately complete work orders that relate to equipment/engines/motors manifesting problems, suggest corrective actions, and complete repairs.
- apply knowledge of personal and environmental safety practices to promote a safe work environment and environmental responsibility.
- research applicable equipment and service information using heavy-duty equipment manuals in print and electronic formats, pertinent websites, and diagnostic equipment to identify, analyze, and correct problems of all major heavy-duty equipment systems.
- acquire Snap-on industry-recognized industry recognized certifications.

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.

demonstrate basic computer literacy skills.

Required Major Co	urses (44 units)		
☐ ADT-100 – [Diesel Engine Technology	4.0	
☐ ADT-101 – [Diesel Engine Rebuild	4.0	
☐ ADT-110 – E	Electrical and Electronic Systems	4.0	
☐ ADT-111 – E	Electrical Systems and Controls	4.0	
☐ ADT-120 – 0	Climate Control	4.0	
☐ ADT-121 – F	Preventative Maintenance	4.0	
☐ ADT-130 – E	Brake Systems	4.0	
ADT-131 – 9	Steering and Suspension Systems	4.0	
☐ ADT-140 – F	Power Drivetrain	4.0	
ADT-141 – A	Automatic Transmissions	4.0	
 ☐ BUS-43 – Bu	usiness Info Systems and Info Literacy	4.0	
OR	·		
BUS-50 – In	troduction to PC Applications	4.0	
			SUBTOTAL: 44 UNITS
General Education	- Required Courses		
Students must complete	one of the following General Education Plans:		
HCCD GE (see page	76)		
English co	mposition	thinking	
☐ Mathema	tical Concepts and Quantitative Reasoning		
Arts and H	lumanities		
_	Behavioral Sciences		
	nd Biological Sciences		
Ethnic Stu			
Lifelong L	earning and Self Development		

TOTAL: 65 UNITS

SUBTOTAL: 23 UNITS

AGRICULTURAL MECHATRONICS

PROGRAMS

- Associate of Science Degree
- Certificate of Achievement



The Associate's Degree in Agricultural Mechatronics will prepare students to work as a skilled mechatronics technician in agriculture. Students will learn how to install, repair, calibrate, and troubleshoot mechatronics or electromechanical systems, 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 Agricultural 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-party 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:

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



TRANSFER PREPARATION

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TRANSFER RESOURCES

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

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AGRICULTURAL MECHATRONICS (AS.MECHA)

ASSOCIATE OF SCIENCE DEGREE

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

- practice safe working practice while working with agricultural mechatronics systems.
- design and install electrical systems and plumbing systems used in agriculture.
- install, calibrate, maintain, troubleshoot, and repair mechanical drive, fluid power, process control, electronic, and electrical systems used in agriculture.
- maintain smart manufacturing systems involving Supervisory Control and Data Acquisition (SCADA), network and communication systems, Manufacturing Execution Systems (MES), and Industry 4.0.

Required	Major Courses (18 units)		
	MFGT-110, Industrial Safety	2.0	
	MFGT-111A, Fundamentals of Agricultural Mechatronics A	2.0	
	MFGT-111B, Fundamentals of Agricultural Mechatronics B	2.0	
	MFGT-112A, Intermediate Agricultural Mechatronics A	2.0	
	MFGT-112B, Intermediate Agricultural Mechatronics B	2.0	
	MFGT-113, Applied Agricultural Mechatronics-Processing	4.0	
	MFGT-114, Advanced Agricultural Process Automation	4.0	
Restricted	d Major Electives: Select two courses (6-7 units)		
	ABT-57, Agriculture Computer Applications	3.0	
_	OR		
	BUS-50, Introduction to PC Applications	4.0	
	MFGT-130, Introduction to Metal Fabrication	3.0	
	WLD-150, Introduction to Arc Welding	3.0	
	CMA-74, Industrial Print Reading	3.0	
	CMA- 81, Computer Aided Drafting and Design	3.0	
Restricted	d Major Electives: Select two courses (6-9.25 units)		
	ABT-93, Product Processing and Cooling	3.0	
H	ABT-160, Introduction to Agriculture	3.0	
H	MFGT-131, Intermediate Metal Fabrication	3.0	
	MFGT-132, Advanced metal Fabrication	3.0	
H	MFGT-71, Agricultural and Industrial Equipment Operations	3.0	
H	WLD-151, Introduction to GTAW/TIG Welding	3.0	
	WLD-154, Advanced Arc Welding	3.0	
	CSS-169, IT Essentials	4.0	
	CSS-50, Introduction to Networks: CCNA1	4.0	
	CMA-75, Engineering Drawing with SolidWorks	3.0	
	CMA-76, Computer-Aided Mechanical Drawing and Detailing	3.0	
	CMA-82, Computer Aided Drafting and Design II	3.0	
	ABT-99, Occupational Cooperative Work Experience	up to 2.25 units	
			TOTAL: 30-34.25 units
	Education Dequired Courses		
	Education – Required Courses must complete one of the following General Education Plans:		
	CD GE (see page 76)		
	☐ English composition ☐ Oral communication and Critical thinking		
	Mathematical Concepts and Quantitative Reasoning		
	Arts and Humanities		
	Social and Behavioral Sciences		
	Physical and Biological Sciences		
	☐ Ethnic Studies		
	Lifelong Learning and Self Development		
			SUBTOTAL: 23 UNITS
Students	can double-count required courses and courses for General Education		-
	es (Courses Numbered 1-199) required when degree units plus GF units	total fewer than 60	

TOTAL: 60 UNITS

FOUNDATION OF AGRICULTURAL MECHATRONICS (CT.MECHA)

CERTIFICATE OF ACHIEVEMENT

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

- practice safe working practices while working with agricultural mechatronic systems.
- program, build, and test simple mechatronic systems, including Programmable Logic Controllers, electronic sensors, handling sequences, conveyors, sorting, pressing, and magazine operations, given agriculturally based scenarios.
- construct a variety of mechanical and electro-mechanical fluid power circuits (hydraulic and pneumatic) used in agriculture.
- design and install electrical systems and plumbing systems used in agriculture.

Required Major Courses (10 units)

MFGT-110, Industrial Safety	2.0
MFGT-111A, Fundamentals of Agricultural Mechatronics A	2.0
☐ MFGT-111B, Fundamentals of Agricultural Mechatronics B	2.0
MFGT-112A, Intermediate Agricultural Mechatronics A	2.0
MFGT-112B, Intermediate Agricultural Mechatronics B	2.0
Major Electives: Select 2 courses (Complete 6-7 units)	
☐ ABT 57, Agriculture Computer Applications	3.0
OR	
BUS 50, Introduction to PC Applications	4.0
☐ MFGT 130, Introduction to Metal Fabrication	3.0
WLD 150, Introduction to Arc Welding	3.0
CMA 74, Industrial Drawing and Print Reading	3.0
CMA 81, Computer Aided Drafting and Design I	3.0

TOTAL: 16-17 UNITS

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.

AGRICULTURE BUSINESS

PROGRAM

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



DESCRIPTION

The Associate in Science in Agriculture Business for Transfer degree aligns with the CSU Bachelor of Science in Agriculture Business. The Associate in Science in Agriculture Business 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 Agriculture Business or Agribusiness Management. 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.

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Field Production Supervisor
- Harvest Supervisor
- Labor Contractor
- Pest Control Advisor
- Produce Sales
- Product Manager
- Production Specialist
- Quality Control Supervisor
- Supplies and Services Sales

AGRICULTURE BUSINESS FOR TRANSFER (AST.AGR)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- demonstrate problem-solving techniques and critical thinking skills while engaged in job situations.
- prepare and deliver business documents and use math skills in appropriate form, format and language essential for career success in an agriculture
- demonstrate professional and personal development of work habits and safety practices.

Required Major Courses (13 units)	
☐ ABT-90 – Soil Science	3.0
☐ ABT-53 – Agribusiness Economics	3.0
☐ ECO-1 – Principles of Macroeconomics	3.0
MAT-13 – Elementary Statistics	4.0
Major Electives (Complete 9 units)	
☐ ABT-49 − Introduction to Agriculture Busines	ss 3.0
☐ ABT-52 – Sales & Service in Agribusiness	3.0
☐ ABT-57 – Agriculture Computer Applications	3.0
☐ ABT-92 − Plant Science	3.0
Recommended Major Electives (None required)	
☐ ABT-58 – Agriculture Laws and Regulations	3.0
☐ BUS-1A — Financial Accounting	3.0
☐ CHM-22 – The Science of Chemistry	4.0
	SUBTOTAL: 22 UNITS

General Education – Required Courses

Students must complete 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.

AGRICULTURE PLANT SCIENCE

PROGRAM

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

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

DESCRIPTION

The Associate in Science in Agriculture Plant Science for Transfer 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 the transfer institution and meet with a counselor for specific transfer course requirements in their major.

program.

Paying for the cost of a college

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

TRANSFER RESOURCES

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

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

FINANCIAL AID

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.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

AGRICULTURE PLANT SCIENCE FOR TRANSFER (AST.APS)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- identify food and fiber crops and their economic importance to the local and state economy.
- understand the relationships between plant, soil, and water, and their impact on plant health, nutrition and the environment.
- identify common problems in crop production and provide recommendations to improve quality and yields.

Required Major Courses (21-24 units)

ABT-90 – Soil Science	3.0
CHM-22 – Introduction to Chemistry	4.0
OR	
CHM-1A – General Chemistry	5.0
ABT-53 – Agribusiness Economics	3.0
OR	
ECO-5 – Principles of Microeconomics	3.0
MAT-13 – Elementary Statistics	4.0
ABT-92 – Plant Science	3.0
MFGT-71 –Agricultural and Industrial Equipment	3.0
OR	
CHM-12A – Organic Chemistry	5.0

SUBTOTAL: 21-24 UNITS

General Education – Required Courses

Students must complete 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.

AGRICULTURE WITH AN AREA OF EMPHASIS

PROGRAMS

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



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

DESCRIPTION

The Associate of Science degree in Agriculture is intended for 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 create career pathways for students wanting to work in Agriculture, or eventually transfer to a specialized higher degree.

Students should consider this degree in order to function in a dynamic environment that deals with crops and management of crops from seed to harvest. Agriculture Production deals with all areas of agriculture production. Jobs in research, management, and development are readily available for those who excel in this degree.

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program.

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

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

TRANSFER RESOURCES

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Food Safety Coordinator
- Product Business Manager
- Ranch Assistant
- Sales Representative

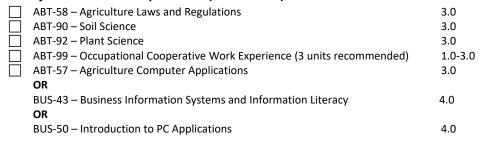
AGRICULTURE WITH AN AREA OF EMPHASIS (AS.AGRI)

ASSOCIATE OF SCIENCE

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

- describe and employ current growing practices in the area of desired study.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area
 of study.
- recognize and evaluate how agriculture is in a progressively changing flux of knowledge and innovation.
- relate why sustainable agriculture is the cornerstone of future growing trends.

Required Major Courses—Complete ALL (13-16 units)



Required Major Courses--Complete ONE AREA 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 business or related field.

AGRICULTURE BUSINESS (14-16 units)

- o Complete: ABT-49, and ABT-53, and ABT-110
- o Complete 2 courses from ABT-52, ABT-54, ABT-80, ABT-160, BUS-1A, or BUS-18

AGRICULTURE PRODUCTION

The Agriculture Production Emphasis is intended for students interested in a wide range of career and educational pathways: farm management, harvest operations, agricultural research, and many more. Students may use this emphasis to obtain skills and knowledge to work in industry, or as a foundation for transfer to a four-year college or university.

☐ AGRICULTURE PRODUCTION (14 units)

- o Complete: ABT-110
- Complete <u>2 courses</u> from ABT-95, ABT-96, ABT-97, ABT-98

Complete 6 units from Major Electives

o ABT-41 (recommended), ABT-83 (recommended), ABT-80, ABT-81, ABT-82, ABT-83, ABT-93, ABT-94, ABT-101, ABT-102, ABT-103, ABT-104, ABT-105, ABT-130, ABT-160, MFGT-70, or MFGT-71, or MFGT-75

FOOD SAFETY

The Food Safety Emphasis is intended for students interested in the specialized practices required for the safe production, handling, transportation and manufacturing of food products. Students will be trained in skills critical to the agriculture and food manufacturing industries. An AS degree in Food Safety will provide students with immediately useful job skills. This degree also provides a foundation of knowledge that may be used to transfer to a four-year university. Keep in mind that several core courses are not transferrable toward a major at a four-year college or university.

FOOD SAFETY (14-15 units)

- o Complete: ABT-130, ABT-131, ABT-132, ABT-133, ABT-134, & ABT- 135
- O Complete **2 courses** from: ABT-80, ABT-110, ABT-160, COM-2 (recommended by advisory for career preparedness)

HORTICULTURE TECHNICIAN

The Horticultural Technician Emphasis is intended for students interested in a career in the seed industry or agricultural research. Students will gain the necessary skills and knowledge to assist with plant breeding, seed enhancement, and agriculture research programs. In addition, students are encouraged to consider transferring to a four-year university to continue studies in a selected area of specialization within this crucial industry.

HORTICULTURAL TECHNICIAN (15 units)

- o Complete: ABT-49, ABT-83, & ABT-98
- o Complete 2 courses from: ABT-95, ABT-96, ABT-97, ABT-160

SMALL FARM OPERATION AND MANAGEMENT

The Small Farm Operation and Management Emphasis is intended for students interested in becoming entrepreneurs in the area of crop production. Students will learn the foundation skills for farming and agriculture business from the ground up. Students will learn in an actual small farm production environment with the focus on organic production systems. Students may use this emphasis as a foundation to start their own business, or obtain skills and knowledge to work in industry. Several required courses are not transferable toward a major at a four-year college or university.

Several courses in the Small Farm Operation and Management emphasis are held off campus at the ALBA Facility, 1700 Old Stage Road, Salinas.

☐ SMALL FARM OPERATION AND MANAGEMENT (20 units)

- o Complete: ABT-94, ABT-101, ABT-102, ABT-103, ABT-104, ABT-105, & ABT-130
- o Complete **2 courses** from: ABT-95 ABT-96, ABT-97, ABT-98

Complete 3 units from Major Electives

 ABT-41 (recommended), MFGT-70, or MFGT-71, or MFGT-75 (recommended), ABT-80, ABT-81, ABT-83, ABT-93, ABT-160, ABT-131, ABT-135

SUSTAINABLE CROP MANAGEMENT

The Sustainable Crop Management Emphasis is intended for students interested in a career in the area of crop health. Students typically select this emphasis as part of the requirements to earn a specialized government license or certification such as a Pest Control Advisor (PCA) license, an International Certified Crop Advisor (CCA), or a Certified Professional Agronomist (CPAg).

A degree or certificate from Hartnell College in Sustainable Crop Management does not satisfy all of the requirements to obtain a California PCA license, CCA or CPAg. Additional requirements apply. In addition, a BS degree in Plant Science, Crop Science or similar area of study is recommended for students seeking this career pathway. For further information about the California PCA license, contact the California Department of Pesticide Regulation (http://www.cdpr.ca.gov) or CAPCA (https://capca.com/pca/). For further information about becoming a CCA or CPAg, contact the American Society of Agronomy (https://www.certifiedcropadviser.org/).

SUSTAINABLE CROP MANAGEMENT EMPHASIS (15 units)

Complete: ABT-41, ABT-80, & ABT-83

General Education – Required Courses

o Complete **6 units** from: ABT-81, ABT-82, ABT-93, ABT-95, ABT-96, ABT-97, ABT-98, ABT-160, ABT-101, ABT-102, or MFGT-70

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Students must complete one of the following General Education Plans:
HCCD GE (see page 76)
☐ English composition ☐ Oral communication and Critical thinking
☐ Mathematical Concepts and Quantitative Reasoning
Arts and Humanities
Social and Behavioral Sciences
Physical and Biological Sciences
Ethnic Studies

Lifelong Learning and Self Development

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: 60 UNITS

SUBTOTAL: 21 UNITS

AGRICULTURE BUSINESS (CT.AGR)

CERTIFICATE OF ACHIEVEMENT

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

- describe and employ current growing practices in the area of desired study.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
- recognize and evaluate how agriculture is in a progressively changing flux of knowledge and innovation.
- relate why sustainable agriculture is the cornerstone of future growing trends

Required Major Courses (21-24 units)

ricquire	a wajor courses (21 24 annes)			
	ABT-110 – Careers in Agriculture and Technology	2.0		
	ABT-49 – Introduction to Agriculture Business	3.0		
	ABT-54 – Agriculture Marketing	3.0		
	ABT-58 – Agriculture Laws & Regulations	3.0		
	ABT-90 – Soil Science	3.0		
	ABT-92 – Plant Science	3.0		
	ABT-99 – Cooperative Work Experience	1.0-3.0		
	ABT-57 – Agriculture Computer Applications	3.0		
	OR			
	BUS-43 – Business Info Systems and Info Literacy	4.0		
	OR			
	BUS-50 – Introduction to PC Applications	4.0		
Major E	Major Electives (Complete 6 units)			
	ABT-52 – Sales & Services in Agribusiness	3.0		
	ABT-53 – Agribusiness Economic	3.0		
	OR			
	ECO-5 – Principles of Microeconomics			
	ABT-80 – Introduction to Sustainable Agriculture & Food	3.0		
	ABT-160 – Introduction to Agriculture	3.0		
	BUS-1A – Financial Accounting	3.0		
	BUS-18 – The Legal Environment of Business	3.0		

TOTAL: 27-30 UNITS

FINANCIAL AID

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AGRICULTURE PRODUCTION (CT.AGRP)

CERTIFICATE OF ACHIEVEMENT

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

- describe and employ current growing practices in the area of desired study.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
- recognize and evaluate how agriculture is in a progressively changing flux of knowledge and innovation.
- relate why sustainable agriculture is the cornerstone of future growing trends.

Required Major Courses (15-18 units) ABT-110 – Careers in Agriculture and Technology 2.0 ABT-58 – Agriculture Laws and Regulations 3.0 ABT-90 – Soil Science 3.0 ABT-92 – Plant Science 3.0 ABT-99 – Cooperative Work Experience 1.0-3.0 ABT-57 – Agriculture Computer Applications 3.0 BUS-43 - Business Information Systems and Info Literacy 4.0 BUS-50 - Introduction to PC Applications 4.0 Major A Electives (Complete 6 units) ABT-91 – Irrigation Practices and Materials 3.0 ABT-95 – Introduction to Small Fruit Science 3.0 ABT-96 – Vegetable Crop Production 3.0 ABT-97 – Vineyard Production & Management 3.0 ABT-98 – Fertilizers & Plant Nutrition 3.0 Major B Electives (Complete 6 units) ABT-41 – Pesticide Applicator Certification Training 3.0 ABT-66 – Intro to Geographic Information System 3.0 ABT-67 – Intermediate GIS w/ Applications to Agriculture 4.0 ABT-80 – Introduction to Sustainable Agriculture & Food 3.0 ABT-81 – Integrated Pest Management Principles in Entomology ABT-82 – Integrated Pest Management Principles in Weed Science ABT-83 – Integrated Pest Management Principles in Plant Pathology 3.0 ABT-93 – Product Processing and Cooling 3.0 ABT-160 – Introduction to Agriculture 3.0 AIT-70 – Introduction to Mechanized Agriculture 3.0 AIT-71 – Agricultural and Industrial Equipment Operation AIT-75 – Agricultural Machinery Management ABT-101 – Organic Vegetable Production 1.5 ABT-102 – Organic Field Production Methods 1.5 ABT-103 – Ag Planning and Recordkeeping for Small Farmers 1.5 ABT-104 – Ag Business Development for New Organic Farmers 1.5 ABT-105 – Marketing Opportunities and Growth for Organic Farming 1.5 ABT-130 – Introduction to Food Safety

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

TOTAL: 27-30 UNITS

FOOD SAFETY (CT.AGFS)

CERTIFICATE OF ACHIEVEMENT

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

- describe and employ current growing practices in the area of desired study.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
- recognize and evaluate how agriculture is in a progressively changing flux of knowledge and innovation.
- relate why sustainable agriculture is the cornerstone of future growing trends.

Required Major Courses (12 units)

ABT-58 – Agriculture Laws and Regulations	3.0
ABT-130 – Introduction to Food Safety	1.5
ABT-131 – Agricultural Practices for Food Safety	1.5
ABT-132 – Food Safety Management	1.5
ABT-133 – Facility Management for Food Safety	1.5
ABT-134 – Environmental Effects on Food Borne	1.5
ABT-135 – Introduction to Food Microbiology	1.5

TOTAL: 12 UNITS

FINANCIAL AID

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CERTIFICATE OF ACHIEVEMENT

The Small Farm Operation and Management Certificate is intended for students interested in becoming entrepreneurs in the area of crop production. Students will learn the foundation skills for farming and 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 start 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 and Management. Several courses in the Small Farm Operation and Management emphasis are held off-campus at the ALBA Facility, 1700 Old Stage Road, Salinas.

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

- demonstrate problem-solving techniques and critical thinking skills while engaged in a crop production environment.
- 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.
- prepare a detailed business and marketing plan for an entrepreneurial agricultural business.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
- demonstrate professional and personal development of work habits and safety practices

Required Major Courses (24-27 units)

· 🗆	ABT-58 – Agriculture Laws and Regulations	3.0
Ē	ABT-90 – Soil Science	3.0
Ē	ABT-92 – Plant Science	3.0
Ē	ABT-94 – Agriculture Enterprise Project	2.0
Ī	ABT-99 – Cooperative Work Experience	1.0-3.0
Ē	ABT-57 – Agriculture Computer Applications	3.4
_	OR	
	BUS-43 – Business Information Systems and Information Literacy	
	OR	
	BUS-50 – Introduction PC Applications	
	ABT-101 – Organic Vegetable Production	1.5
	ABT-102 – Organic Field Production Methods	1.5
	ABT-103 – Agriculture Whole Farm Planning and Recordkeeping for Small Farm	1.5
	ABT-104 – Agriculture Business Development for New Organic Farmers	1.5
	ABT-105 – Marketing Opportunities and Growth for Organic Farming	1.5
	ABT-130 – Introduction to Food Safety	1.5
Restricted	Major Electives, Group A (6 units - Select two courses)	
	ABT-95 – Introduction to Small Fruit Science	3.0
	ABT-96 – Vegetable Crop Production	3.0
	ABT-97 – Vineyard Production and Management	3.0
	ABT-98 – Fertilizers and Plant Nutrition	3.0
Restricted	Major Electives, Group B (Complete 3 units)	
	ABT-41 – Pesticide Applicator Certification Training	3.0
	MFGT-70 – Introduction to Mechanized Agriculture	3.0
	MFGT-71 – Agricultural and Industrial Equipment Operation	3.0
	MFGT-75 – Agricultural Machinery Management	3.0
	ABT-80 – Introduction to Sustainable Agriculture and Food	3.0
	ABT-81 – Integrated Pest Management Principles in Entomology	3.0
	ABT-82 – Integrated Pest Management Principles in Weed Science	3.0
	ABT-83 – Integrated Pest Management Principles in Plant Pathology	3.0
	ABT-93 – Product Processing & Cooling	3.0
╚	ABT-160 – Introduction to Agriculture	3.0
╚	ABT-131 – Agricultural Practices for Food Safety	1.5
	ABT-135 – Introduction to Food Microbiology	1.5

TOTAL: 33-36 UNITS

FINANCIAL AID

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SUSTAINABLE CROP MANAGEMENT (CT.AGSC)

CERTIFICATE OF ACHIEVEMENT

The Sustainable Crop Management Certificate of Achievement is intended for students interested in a career in the area of crop health. Students typically select this emphasis as part of the requirements to earn a specialized government license or certification such as a Pest Control Advisor (PCA) license, an International Certified Crop Advisor (CCA), or a Certified Professional Agronomist (CPAg).

Additional requirements apply in order to obtain a California PCA license, CCA or CPAg. In addition, a BS degree in Plant Science, Crop Science or similar area of study is recommended for most students seeking this career pathway.

For further information about the California PCA license, contact the California Department of Pesticide Regulation (http://www.cdpr.ca.gov) or CAPCA (https://capca.com/pca/). For further information about becoming a CCA or CPAg, contact the American Society of Agronomy (https://www.certifiedcropadviser.org/).

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

- demonstrate problem-solving techniques and critical thinking skills while engaged in a crop production environment.
- 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.
- distinguish and propose inputs and controls needed to produce a consistently healthy crop in an area of study.
- relate why sustainable agriculture is the cornerstone of future growing trends.
- demonstrate professional and personal development of work habits and safety practices

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

Required Major Courses (21-22 units) ABT-58 – Agriculture Laws and Regulations

ABT-36 - Agriculture Laws and Regulations	3.0
ABT-80 – Introduction to Sustainable Agriculture and Food	3.0
ABT-83 – Integrated Pest Management Principles in Plant Pathology	3.0
ABT-90 – Soil Science	3.0
ABT-92 – Plant Science	3.0
ABT-99 – Cooperative Work Experience	1.0-3.0
ABT-57 – Agriculture Computer Applications	3-4
OR	
BUS-43 – Business Information Systems and Information Literacy	
OR	
BUS-50 – 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.

ABT-81 – Integrated Pest Management Principles in Entomology	3.0
ABT-82 – Integrated Pest Management Principles in Weed Science	3.0
ABT-93 – Product Processing & Cooling	3.0
ABT-95 – Introduction to Small Fruit Science	3.0
ABT-96 – Vegetable Crop Production	3.0
ABT-97 – Vineyard Production and Management	3.0
ABT-98 – Fertilizers and Plant Nutrition	3.0
ABT-160 – Introduction to Agriculture	3.0
ABT-101 – Organic Vegetable Production	1.5
ABT-102 – Organic Field Production Methods	1.5
MFGT-70 – Introduction to Mechanized Agriculture	3.0

TOTAL: 27-28 UNITS

PROGRAM

Associate of Science (A.S.)

DESCRIPTION

The Astronomy program introduces students to the physical properties and processes that govern celestial bodies in the Universe. Students may take astronomy courses to satisfy their physical science requirements or to transfer to the university with a major in astronomy/astrophysics or double major in astronomy and physics. Transfer level astronomy curricula stress very strong preparation in physics and mathematics. While most astronomy courses will be taken at the upper division or graduate level, exposure to lower division astronomy courses will assist in exploring the major. Students planning to transfer may need to complete additional coursework and/or select specific electives required by the transfer institution and should consult with a Hartnell College counselor to identify required courses at their target university.

Students who complete a B.S. degree in astronomy will be qualified to enter a teaching credential program, operate a planetarium, and assist at an observatory. With an M.S. degree, students can teach astronomy or physics at a community college, be a telescope operator at a major observatory, or work in industry. A Ph.D. qualifies students for a career in research at a university, space agency, or observatory.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Astronomer
- Astronomy/Physics Professor
- Astrophysicist
- Observatory Director
- Planetarium Director
- Research Scientist
- Science Teacher



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

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ASTRONOMY (AS.AST)

ASSOCIATE OF SCIENCE

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

- explain basic astronomical phenomena and why they occur.
- apply the laws of physics and solve mathematical problems to explain the physical properties and processes that govern celestial bodies in the Universe.
- explain and discuss the impact and history of scientific theories.
- demonstrate proficiency in applying scientific procedures for making observations, measurements, and calculations typical of modern scientific research.

Required Major Courses (34 units)			
AST-1 – Introduction to Astronomy	3.0		
AST-1L – Astronomy Laboratory	1.0		
PHY-4A – General Physics I/Mechanics	4.0		
PHY-4B – General Physics II/Electricity and Magnesium	4.0		
PHY-4C – General Physics III/ Waves, Heat and Modern Physics	4.0		
MAT-3A – Analytic Geometry and Calculus I	4.0		
	4.0		
	4.0		
MAT-4 – Linear Algebra	3.0		
MAT-5 – Differential Equations	3.0		
Major Electives (Complete 1 course – 4-5 units)			
CHM-1A – General Chemistry I	5.0		
CSS-1 – Introduction to Computer Science and Programming	4.0		
CSS-4 – Introduction to Scientific Programming	4.0		
	SUBTOTAL: 38-39 UNITS		
General Education – Required Courses			
Students must complete one of the following General Education Plans:			
HCCD GE (see page 76)			
☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning			
Arts and Humanities			
Social and Behavioral Sciences			
Physical and Biological Sciences			
Ethnic Studies			
☐ Lifelong Learning and Self Development			
	SUBTOTAL: 23 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: 60 ≤UNITS

BASIC COMPUTER LITERACY

PROGRAM

Certificate of Completion

AGRICULTURE, BUSINESS & INDUSTRIES

FOR MORE INFORMATION CALL (831) 755-6701

DESCRIPTION

The Certificate of Completion in Basic Computer Literacy is awarded upon the successful completion of BUS 600, 605, and 610. This noncredit program is intended for individuals with limited or no technology skills to provide basic computer literacy to lead to improved employability (career path or job opportunities) or to prepare students to take degree-applicable credit courses.

PROGRAM GOALS AND OBJECTIVES:

This noncredit program will provide students with limited or no technology skills an opportunity to learn/improve keyboarding skills, to learn and use computer terminology and concepts, and to develop basic computer application skills. Students will also learn to use email and the Internet. The program-level learning outcome is "Given a course or work assignment, a student will be able to use keyboarding skills and computer technology/applications to produce basic business documents, emails, and Internet searches."

*There is a \$10 Student Activities fee. However, there are no tuition fees because noncredit courses do not earn units/credits.

REQUIRED COURSES

BUS-600 – Beginning Keyboarding
☐ BUS-605 – Basic Computer Concepts
☐ BUS-610- — Introduction to the Internet and Email

Students must successfully complete BUS 600, 605, and 610, which are offered fall, spring, and summer sessions. While students may complete the certificate in any sequence, it is recommended that the numbering sequence be followed since keyboarding and a knowledge of basic computer concepts will allow for more efficient use of the applications.

PROGRAMS

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



The Biology program offers degrees that are intended to create 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 transferring to four-year institutions who are interested in careers such as agriculture, health, research, and teaching.

The Biology program offers two associate degrees: The AS degree (associate degree in biological sciences) and the AS-T degree (associate degree in biological sciences for transfer). The AS degree does not require calculus, but includes other mathematics courses that meet transfer requirements for certain institutions. The AS-T provides a clearly articulated curriculum, including first-semester calculus, for students who wish to transfer to baccalaureate degree programs at California State University (CSU) campuses.

Baccalaureate programs in biology include a wide array of specialties including but not limited to: animal or plant science, biochemistry, bioinformatics, cell and molecular biology, environmental biology, human biology, and microbiology. The preparation for different specialties will vary. For detailed requirements for individual programs at four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- **Animal Scientist**
- **Biologist**
- **Botanist**
- **Ecologist**
- **Environmental Scientist**
- Natural Resource Manager
- **Nature Conservationist**
- **Public Health Worker**



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

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

Research/Professor

Wildlife Biologist

Water Quality Technician

Wildlife Resource Worker

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- apply the scientific method to problem solving, devising a research plan, and evaluating data and findings.
- describe the structure and function of biological molecules, cells and organelles, and tissues and organ systems of plants and animals.
- apply the principles of heredity at the molecular, cellular, and organismal levels
- explain the mechanism and evidence of evolution through natural selection.
- apply taxonomic principles to the classification of organisms.
- describe the flow of energy within organisms and within ecosystems.

Required Major Courses (29 units) BIO-1 – Fundamental Biological Concepts

BIO-1 – Fundamental Biological Concepts	5.0
☐ BIO-2 – General Zoology	5.0
☐ BIO-3 – General Botany	5.0
CHM-1A – General Chemistry I	5.0
CHM-1B – General Chemistry II	5.0
MAT-3A – Analytic Geometry and Calculus I	4.0

Required Courses (Select 1 series 8 units)

PHY-2A – College Physics I	4.0
AND	
PHY-2B – College Physics II	4.0
OR	
PHY-4A – General Physics I/Mechanics	4.0
AND	
PHY-4B – General Physics II/Electricity and Magnetism	4.0

Recommended Major Electives (None Required)

CHM-12A – Organic Chemistry I	5.0
CHM-12B – Organic Chemistry II	5.0
MAT-13 – Elementary Statistics	4.0
MAT-3B – Analytic Geometry and Calculus II	4.0
MAT-3C – Analytic Geometry and Calculus III	4.0

SUBTOTAL: 37 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE for STEM (see page 78) 33 units IGETC for STEM (see page 80) 31 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.

BIOLOGY (AS.BIO)

ASSOCIATE OF SCIENCE

CSU-GE (see page 78)

IGETC (see page 80)

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

- apply the scientific method to problem solving, devising a research plan, and evaluating data and findings.
- describe the structure and function of biological molecules, cells and organelles, and tissues and organ systems of plants and animals.
- apply the principles of heredity at the molecular, cellular, and organismal levels.
- explain the mechanism and evidence of evolution through natural selection.

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.

- apply taxonomic principles to the classification of organisms.
- describe the flow of energy within organisms and within ecosystems.

Required Major Courses (33 units) ☐ BIO-1 – Fundamental Biological Concepts 5.0 ☐ BIO-2 – General Zoology 5.0 ☐ BIO-3 – General Botany 5.0 CHM-1A – General Chemistry I 5.0 CHM-1B – General Chemistry II 5.0 MAT-13 – Elementary Statistics 4.0 MAT-25 – Pre-Calculus 4.0 Major Electives (Select 1 series 8-12 units) PHY-2A/2B – College Physics I & II 8.0 PHY-4A/4B/4C – General Physics I, II, III 12.0 **Recommended Major Electives (None Required)** CHM-12A – Organic Chemistry I 5.0 CHM-12B – Organic Chemistry II 5.0 MAT-3A – Analytic Geometry and Calculus I 4.0 MAT-3B – Analytic Geometry and Calculus II 4.0 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:

39 units

37 units

TOTAL: 78-84 UNITS

PROGRAM

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



DESCRIPTION

The Associate in Science in Business Administration 2.0 for Transfer degree (AS-T 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 remaining requirements within 60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administration majors 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 communicate economic effects, effectively convey financial information, and explain social, political and ethical implications of business decision making

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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

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BUSINESS ADMINISTRATION 2.0 (AST.BUS2)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- apply accounting principles to prepare financial statements and managerial reports.
- apply concepts related to the law and the legal environment as it applies to business operations, including its ethical implications.
- analyze and interpret business scenarios using quantitative and logical reasoning to evaluate and solve business problems.
- demonstrate knowledge of basic economic concepts and how they affect business.

Required Major Courses (28-29 units)

BUS-1A – Financial Accounting	3.0
BUS-1B – Managerial Accounting	3.0
BUS-18 – The Legal Environment of Business	4.0
BUS-32 – Introduction to Business	3.0
ECO-1 – Macroeconomics	3.0
ECO-5 – Microeconomics	3.0
MAT-2 – Calculus for Managerial, Life & Social Science	4.0
OR	
MAT-16 – Finite Mathematics	3.0
OR	
MAT-25 – Pre-Calculus	4.0
MAT-13 – Elementary Statistics	4.0

SUBTOTAL: 27-28 UNITS

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.
- 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.

BUSINESS OFFICE TECHNOLOGY

PROGRAMS

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

AGRICULTURE, BUSINESS & INDUSTRIES

DESCRIPTION

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

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

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 OPPORTUNITIES SUCH AS:

- Account Clerk
- Administrative Support
- Bank Teller
- Billing Clerk
- Bookkeeping
- Customer Service
- Data Entry
- Executive Secretary/Assistant
- File and Records Clerk
- Information Clerk
- Office Manager
- Payroll Clerk
- 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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BUSINESS OFFICE TECHNOLOGY – INFORMATION PROCESSING (AS.BST)

ASSOCIATE OF SCIENCE

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

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

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.

Required Major Courses (35 units)			
■ BUS-50 – Introduction to PC Applications	4.0		
☐ BUS-110A — Beginning Keyboarding	1.0		
BUS-110B – Beginning Formatting and Document Proce	essing 1.0		
BUS-111A – Intermediate Keyboarding	1.0		
BUS-111B – Intermediate Document Processing	2.0		
BUS-135 – Professionalism Office Skills	4.0		
BUS-140A - Keyboarding Speed and Accuracy	0.5		
BUS-140B – Keyboarding Speed and Accuracy	0.5		
BUS-150.15 – Word Processing	3.0		
BUS-172- Business Machine Calculations	1.0		
BUS-173 – Filing Procedures and Records Management	3.0		
BUS-175 – Business Communications	3.0		
BUS-177 – Proofreading and Editing Skills	3.0		
BUS-190 – Career Management	2.0		
BUS-194 – Human Relations in Business	3.0		
COM-1 – Introduction to Public Speaking	3.0		
		SUBTOTAL: 35 UNITS	
Seneral Education – Required Courses			
tudents must complete one of the following General Education Plans:			
HCCD GE (see page 76)			
☐ English composition ☐ Oral communication and Critical think	ng		
☐ Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities			
Social and Behavioral Sciences			
Physical and Biological Sciences			
Ethnic Studies			
Lifelong Learning and Self Development			
		SUBTOTAL: 23 UNITS	

TOTAL: 60 UNITS

BUSINESS OFFICE TECHNOLOGY – BOOKKEEPING (CT.BOTB)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (26 units)

☐ BUS-50 – Introduction to PC Applications	4.0
BUS-110A – Beginning Keyboarding	1.0
BUS-110B — Beginning Formatting and Document Processing	1.0
BUS-135 – Professionalism Office Skills	4.0
BUS-42 – Electronic Spreadsheets	3.0
BUS-152 – Introduction to Accounting	4.0
☐ BUS-154 – Computerized Accounting	3.0
BUS-172 – Business Machine Calculations	1.0
☐ BUS-173 – Filing Procedures and Records Management	3.0
BUS-190 – Career Management	2.0

TOTAL: 26 UNITS

FINANCIAL AID

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BUSINESS OFFICE TECHNOLOGY – INFORMATION PROCESSING (CT.BST)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (26 units)

BUS-50 – Introduction to PC Applications	4.0
BUS-110A – Beginning Keyboarding	1.0
☐ BUS-110B – Beginning Formatting and Document Proce	ssing 1.0
BUS-111A – Intermediate Keyboarding	1.0
BUS-111B – Intermediate Document Processing	2.0
BUS-135 – Professionalism Office Skills	4.0
■ BUS-140A – Keyboarding Speed and Accuracy	0.5
BUS-140B – Keyboarding Speed and Accuracy	0.5
BUS-150.15 – Word Processing	3.0
BUS-172 – Business Machine Calculations	1.0
☐ BUS-173 – Filing Procedures and Records Management	3.0
☐ BUS-177 – Proofreading and Editing Skills	3.0
BUS-190 – Career Management	2.0

TOTAL: 26 UNITS

FINANCIAL AID

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BUSINESS - FIRST LINE SUPERVISOR

PROGRAMS

Certificates of Achievement



DESCRIPTION

This certificate prepares students with a set of soft skills recognized as crucial to performing in a supervisory role in a business setting. Specifically, improving communication skills, understanding the structure and functions of business, and knowledge of human relations in the workplace are all considered essential to the success of business today. It also develops information technology literacy, including computer applications and online research skills.

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Supervisors of
 - Food Preparation and Serving Workers
 - Retail Sales Works
 - Administrative Support Workers
 - Farming, Fishing and Forestry Workers
 - Construction Trades and Extraction Workers

FIRST LINE SUPERVISOR (CT.FS)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate knowledge of the organization and the functions of modern businesses.
- demonstrate basic oral and written business communication skills.
- apply concepts, methods, and tools of management in an ethical manner to typical business operations.
- use technology and software applications effectively for common business operations.
- demonstrate the ability to work effectively with others in a team environment.

Required Major Courses (16 units)

• • •	
☐ BUS-32—Introduction to Business	3.0
☐ BUS-42—Electronic Spreadsheet (Excel)	3.0
☐ BUS-43—Business Information Systems & Info Literacy	4.0
BUS-194—Human Relations	3.0
COM-1—Introduction to Public Speaking	3.0

TOTAL: 16 UNITS

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.

BUSINESS INFORMATION WORKER

PROGRAMS

Certificates of Achievement



DESCRIPTION

BUSINESS INFORMATION WORKER LEVEL 1

This certificate prepares students with basic office skills to perform entry-level business office related tasks. Course offerings introduced the students to concepts such as customer service, office procedures and business communication. In addition, students acquire beginning technology skills that include word processing, spreadsheets, presentation software, personnel management software, and computer literacy.

BUSINESS INFORMATION WORKER LEVEL 2

This certificate is a continuation of the Business Office Professional pathway building on the courses already completed for the Level 1 certificate. Additional courses provide a continued focus on the development of office and technology skills including career management, filing procedures and record management, and computer applications including MS Word and personal management software.

GAINFUL EMPLOYMENT INFORMATION:

See the certificate program cost and the employment outlook for graduates by clicking the link below:

http://www.hartnell.edu/gainfu l-employment-certificateprograms-0

FINANCIAL AID

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Administrative Assistant
- Billing and Posting Clerks
- Customer Service Representatives
- Executive Secretaries and Executive Administrative Assistants
- File Clerks
- Secretary

BUSINESS INFORMATION WORKER LEVEL-1 (CT.BIW1)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the ability to use office related computer application software such as MS Word, Excel, Powerpoint, and Access.
- demonstrate knowledge of basic entry-level office computer skills and processes (keyboarding and 10-key)
- demonstrate basic oral and written business communication skills
- efficiently use a computer to perform basic office tasks including electronic file management.

Required Major Courses (16 units)

☐ BUS-50 – Introduction to PC Applications	4.0
☐ BUS-110A – Beginning Keyboarding	1.0
BUS-110B – Beginning Formatting and Document Pr	ocessing 1.0
BUS-135 – Professional Office Skills	4.0
BUS-172 – Machine Calculations	1.0
BUS-175 – Business Communications	3.0
BUS-190 – Career Management	2.0

TOTAL: 16 UNITS

FINANCIAL AID

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BUSINESS INFORMATION WORKER LEVEL-2 (CT.BIW2)

CERTIFICATE OF ACHIEVEMENT

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

- successfully demonstrate oral and written skills used in the job searching process.
- create, edit and format a variety of business documents.
- demonstrate proficiency in using personal management software.
- demonstrate ability to use a variety of record management techniques.

(Complete all BIW1 courses listed) (16 units)

☐ BUS-50 – Introduction to PC Applications	4.0
☐ BUS-110A — Beginning Keyboarding	1.0
BUS-110B — Beginning Formatting and Document Processing	1.0
BUS-135 – Professional Office Skills	4.0
BUS-172 – Machine Calculations	1.0
BUS-175 – Business Communications	3.0
BUS-190 – Career Management	2.0
Required Major Courses (10 units)	
☐ BUS-111A – Intermediate Keyboarding	1.0
☐ BUS-111B – Intermediate Document Processing	2.0
BUS-136 – Personal Information Management	1.0
☐ BUS-173 – Filing Procedures and Records Management	3.0
BUS-42 – Electronic Spreadsheets	3.0

TOTAL: 26 UNITS

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.

CHEMISTRY

PROGRAM

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



DESCRIPTION

The Chemistry program at Hartnell College is designed to meet the needs of the diverse community of interests served by the community college. A full program of chemistry for the aspiring professional scientist is offered through general chemistry and a two-semester course in organic chemistry. A separate track is offered for nursing and allied health students which includes general inorganic, organic and biochemistry. The Chemistry discipline also has a strong commitment to the student with little or no prior chemistry background. The entire program is taught with a strong laboratory emphasis, and in the more advanced classes, students receive handson experience with a wide variety of instruments.

Four-year graduates in chemistry are qualified for positions in research, industry, education, engineering, and the allied medical fields.

The Associate in Science degree in Chemistry 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/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Biochemist
- Chemical Laboratory Technician
- Chemist
- Clinical Researchers
- Food Chemist
- Hydrologist
- Molecular Biologist
- Natural Science Manager
- Organic Chemist
- Pharmacologist
- Plastic Engineer

- Pollution Control Chemist
- Product Tester
- Quality Assurance Manager
 - Soil Scientist
- Teacher/Professor
- Toxicologist

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.

ASSOCIATE IN SCIENCE FOR TRANSFER

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

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

Required Major Courses (36 units)	
☐ CHM-1A – General Chemistry I	5.0
☐ CHM-1B – General Chemistry II	5.0
CHM-12A – Organic Chemistry I	5.0
CHM-12B – Organic Chemistry II	5.0
PHY-4A – General Physics/Mechanics	4.0
PHY-4B – General Physics/Electricity & Magnetis	sm 4.0
MAT-3A – Analytic Geometry and Calculus I	4.0
MAT-3B – Analytic Geometry and Calculus II	4.0
Recommended Major Electives (None Required)	
MAT-3C – Analytic Geometry and Calculus III	4.0
MAT-4 – Linear Algebra	3.0
	3.0
PHY-4C – General Physics/Waves, Heat, Light	4.0
	SUBTOTAL: 36 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

IGETC for STEM (see page 80)

31 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.

CHICANX STUDIES

PROGRAM

Associate of Arts (A.A.)



DESCRIPTION

The Chicanx 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:

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

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CHICANX STUDIES (AA.CHCX)

ASSOCIATE OF ARTS

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

- demonstrate knowledge of Chicanx in the United States including an evaluation of the political experiences with respect to local and national leaders.
- apply critical thinking skills in reading, comprehending, and interpreting Chicanx studies scholarship including major contributors who have influenced the course of study, policy and or culture.
- demonstrate knowledge of Chicanx culture including an analysis in cultural expressions including but not limited to contemporary culture, literature or cinema.
- distinguish variations within the Chicanx community with respect to class, gender, ethnicity, race, and sexuality.

Required Major Courses (14 units)		
☐ ETH-1 – Introduction to Ethnic Studies	3.0	
☐ ETH-3 – Introduction to Chicanx Studies	3.0	
ETH-4 – Chicanx Culture	3.0	
SPA-1 – Elementary Spanish 1	5.0	
OR		
SPA-1X – Elementary Spanish 1 for Chicano Students	5.0	
OR		
SPA-1S – Elementary Spanish 1 for Spanish Students	5.0	
Major Electives (Complete 6 units)		
☐ ETH-2 – Chicana/o/x Leadership	3.0	
☐ ETH-5/POL-5 — Chicano Politics	3.0	
ETH-6 – La Chicana	3.0	
☐ ETH-7 – Chicana/o/x Theatre	3.0	
ETH-12 – Chicano Cinema	3.0	
☐ HIS-49A− Chicano History A	3.0	
OR		
HIS-49B – Chicano History B		
		SUBTOTAL: 20 UNITS
General Education – Required Courses		
Students must complete one of the following General Educatio	n Plans:	
HCCD GE (see page 76)		
☐ English composition ☐ Oral communication and Critical think	king	
☐ Mathematical Concepts and Quantitative Reasoning☐ Arts and Humanities		
Social and Behavioral Sciences		
Physical and Biological Sciences		
Ethnic Studies		
☐ Lifelong Learning and Self Development		

TOTAL: 60 UNITS

SUBTOTAL: 23 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.

PROGRAM

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



DESCRIPTION

The Associate in Arts in Communication Studies 2.0 for Transfer allows students to focus their major course work and required electives to achieve communicative competence in the areas of business, intercultural, interpersonal and public communication. This program, its instructors, and curriculum are dedicated to providing a student-centered design of the college experience, working to ensure every student understands how to use communication to successfully achieve their varied educational, career, and personal goals. The program also guarantees students will learn how communication is a core part of constructing and negotiating identity, encouraging students to see communication as a means to better understand themselves and others from different backgrounds. The program in Communication Studies recognizes identity is the intersection of race/ethnicity, gender identity and expression, sexuality, national origin, citizenship status, class, socioeconomic status, ability and disability, language, religion, age, physical appearance and other aspects not yet identified.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Account Representative
- Advertising
- Advocate
- Announcer
- Broadcaster
- Consultant
- Corporate Communications Officer •
- Director/Producer
- Editor
- **Journalist**

- Lawyer
- Marketing
- Negotiator
- **Public Administration**
- **Public Relations**
- Researcher
- Sales Representative
- Speech Writer
- Teacher

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

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COMMUNICATION STUDIES 2.0 (AAT.COM2)

ASSOCIATE IN ARTS FOR TRANSFER

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

- articulate their own unique communication opportunities and strengths through a lens of intrapersonal and cultural exploration.
- conceive, research, develop and deliver a focused, cogent, and clear oral presentation for diverse audiences.
- explain the transactional and transformative nature of human communication using culturally relevant examples.
- research, organize, and write a paper detailing and applying various communication theories and concepts as applied to their own unique lived experiences.

Required Major Courses (15 units)

Ma

COM-1 – Introduction to Public Speaking	3.0		
COM-2 – Argumentation and Debate	3.0		
COM-5 – Professional & Leadership Communication	3.0		
COM-4 – Intercultural Communication	3.0		
COM-8 – Interpersonal Communication	3.0		
ajor Electives (Complete 3 units)			
COM-3 – Survey of Human Communication	3.0		

COM-3 – Survey of Human Communication	3.0
ANT-2 – Introduction to Anthropology Cultura	al 3.0
☐ ENG-2 – Critical Thinking and Writing	3.0
PSY-2 – General Psychology	3.0
SOC-1 – Introduction to Sociology	3.0
☐ FNG-1B – College Literature and Composition	3.0

SUBTOTAL: 18 UNITS

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.
- 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.

COMPUTER SCIENCE FOR TRANSFER

PROGRAM

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

SCIENCE • TECHNOLOGY ENGINEERING • MATHEMATICS

DESCRIPTION

The Computer Science and Information Systems program offers courses that are intended to create interests and enrichment through the study of computer science fundamentals, programming concepts, and hardware. The major courses provide a strong well-rounded background in computer science for students transferring to four-year institutions who are interested in careers such as software developers, software engineers, researchers and teachers.

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

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Administrator
- Computer Science Teacher
- Network and Computer Systems
- Programmer Analyst
- Software Developer
- Web Developer

COMPUTER SCIENCE FOR TRANSFER (AST.CS)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- demonstrate the ability to communicate effectively with technical and non-technical colleagues through presentations and reports, and work effectively on a team project.
- design and construct significant computer application(s) using current programming languages and operating systems.
- describe the organization and operation of a computer architecture with respect to numerical representations and computations, digital logic, and computer components.
- demonstrate the ability to evaluate algorithms, select from a range of possible options, provide justification for that selection, and implement the algorithm using an appropriate programming language and context.
- demonstrate the ability to solve discrete mathematical problems, describe and apply discrete structures and logic principles, perform run-time analysis on algorithms and prove algorithm correctness.

Required Major Courses (33 units)

CSS-2A – Object Oriented Programming	4.0
CSS-2B – Data Structures and Algorithms	4.0
CSS-3 – Computer Architecture and Assembly	4.0
CSS-7 – Discrete Structures	4.0
MAT-3A – Analytic Geometry and Calculus I	4.0
MAT-3B – Analytic Geometry and Calculus II	4.0
PHY-4A – General Physics I/Mechanics	4.0
BIO-1 – Fundamental Biological Concepts	5.0

SUBTOTAL: 33 UNITS

General Education – Required Courses

Students must complete the following General Education Plans:

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).
 - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- 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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS COMPUTER SCIENCE OPTION

PROGRAMS

- Associate of Science (A.S.)
- Certificate of Achievement



The Computer Science and Information Systems program prepares students taking the Computer Science Option with the lower-division major preparation required at most universities for advancement to upper-division coursework for the Bachelor's Degree with a major in Computer Science or Information Systems fields. The scientific and technical skills acquired through this study serve to prepare students for high demand careers in computing, such as software developer, computer programmer, and software engineer.



- Computer & Information System Managers
- Computer Programmers
- Computer Systems Engineer
- Software Developers
- Software Quality Assurance Engineers & Testers
- Web Administrator
- Web Developer



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

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

ASSOCIATE OF SCIENCE

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

- accurately communicate their work in a technical and non-technical context.
- design and construct significant computer application(s) using current programming languages, computer architectures, and operating systems.
- describe the organization and operation of a computer architecture with respect to numerical representation and computations, digital logic, and computer components.
- demonstrate the ability to evaluate algorithms, select from a range of possible options, provide
 justification for that selection, and implement the algorithm in a programming context.

Required Major Courses (20 units)

SI	UBTOTAL: 20 UNITS
CSS-7 – Discrete Structures	4.0
CSS-3 – Computer Architecture and Assembly Language Programming	4.0
CSS-2B – Data Structures and Algorithms	4.0
CSS-2A – Object Oriented Programming	4.0
CSS-1 – Introduction to Computer Science and Programming Fundamentals	4.0

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 1-199) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS

COMPUTER SCIENCE AND INFORMATION SYSTEMS—COMPUTER SCIENCE OPTION (CT.CISC)

CERTIFICATE OF ACHIEVEMENT

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

- accurately communicate their work in a technical and nontechnical context.
- design and construct significant computer application(s) using current programming languages, computer architectures, and operating systems.
- describe the organization and operation of a computer architecture with respect to numerical representation and computations, digital logic, and computer components.
- demonstrate the ability to evaluate algorithms, select from a range of possible options, provide justification for that selection, and implement the algorithm in a programming context.

Required Major Courses (20 units)

☐ CSS-1 — Introduction to Computer Science and Programming	4.0
CSS-2A – Object Oriented Programming	4.0
CSS-2B – Data Structures Algorithms	4.0
CSS-3 – Computer Architecture and Assembly Language	4.0
CSS-7 – Discrete Structures	4.0
Major Electives (Complete 8 units)	
CSS-50 – Introduction to Networks: CCNA 1	4.0
CSS-53 – Computer Security Principles	4.0
CSS-56 – Storage Management and Virtualization	4.0
MAT-3B – Analytic Geometry and Calculus II	4.0

TOTAL: 28 UNITS

FINANCIAL AID

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COMPUTER SCIENCE AND INFORMATION SYSTEMS CISCO CERTIFIED NETWORK ASSOCIATE

PROGRAMS

Certificates of Achievement

DESCRIPTION

This Cisco Certified Network Associate (CCNA) Certificate of Achievement combines all of the required courses needed to prepare for the CCNA exam, an industry-recognized 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 fast-track career in IT careers related to networking.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Computer Network Specialists
- 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the mastery in networking required to obtain CCNA certification from Cisco systems.
- demonstrate the ability to think critically, communicate, and personal responsibility in IT industry.
- design and implement converged networks in both wired and wireless networks.

Required Major Courses (15 units)

CSS-50 – Introduction to Networks: CCNA 1	4.0
CSS-51 – Switching, Routing, and Wireless Essentials: CCNA 2	4.0
CSS-52 — Enterprise Networking, Security and Automation: CCNA3	4.0
COM-3 – Survey of Human Communication	3.0
OR	
ENG-1A – College Composition and Reading	3.0

TOTAL: 15 UNITS

FINANCIAL AID

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COMPUTER SCIENCE AND INFORMATION SYSTEMS CYBERSECURITY

PROGRAMS

Certificate of Achievement

DESCRIPTION

The Cybersecurity Certificate of Achievement combines security in a networking and system administration environment to provide students with well-rounded skills and knowledge necessary for careers in cybersecurity in the Information Technology Industry. Students who want to advance their career in IT are encouraged to complete the Computer Science Associate Degree with a focus on Network and Security Option.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Penetration Tester
- Computer Forensic Analyst
- Security Architect
- Malware Analyst

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

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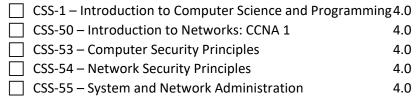
COMPUTER SCIENCE AND INFORMATION SYSTEMS CYBERSECURITY (CT.CS)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the ability to communicate and present concepts in cybersecurity as they relate to networking and system and network administration.
- demonstrate the ability to implement and manage security in a networked environment.

Required Major Courses (20 units)



TOTAL: 20 UNITS

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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS DIGITAL WEB AND MOBILE DEVELOPMENT

PROGRAMS

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



The Digital Web and Mobile Development program is designed for students who are interested in entering the fast-paced fields of web development and mobile app development. A student will learn the latest in web languages, basic web and mobile programming and appropriate use of digital media by building a digital portfolio of their work. Students can focus on either web development or mobile app development through the certificate program or combine the two disciplines for an Associate's degree. Many of these courses are offered in the online environment to accommodate those students who are presently employed. The web and mobile degree option emphasizes the following competencies: managing the development of a project, delivery of comprehensive, integrated digital media via the web or mobile application. Students will also development a set of customer liaison skills as they integrating all facets of digital media into an effective web or mobile application. 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 member on how best to complete the program in which you are enrolled.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Advertising Sales Representative or Executive
- Graphic Designer
- Marketing Manager
- Public Relations Specialist
- Web Developer



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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS DIGITAL WEB AND MOBILE DEVELOPMENT (AS.DWMD)

ASSOCIATE OF SCIENCE

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

- anticipate, identify and solve technical and design issues by applying current design standards
- apply knowledge in a variety of computer proficiency areas including web languages, software applications, file transfer protocol, and web and app configuration.

Required Major Courses (14 units)	
BUS-32 – Introduction to Business	3.0
CSS-25 – Multimedia Integration	3.0
CSS-27 – Project Management using Microsoft Project	4.0
CSS-64 – HTML 5 and CSS3 – Web Development	4.0
C33-04 – HTIVIL 3 and C333 – Web Development	4.0
Major Electives A (Complete 8 units)	
CSS-26 – Dreamweaver	4.0
CSS-74 – Wordpress for Websites	4.0
CSS-76 – Android App Development Using Java	4.0
CSS-86 – Adobe Animate	4.0
And the Florit are D. (Complete and D. 1975 and Complete	
Major Electives B (Complete an additional 8 units)	4.0
CSS-29 – Programming for Multimedia	4.0
CSS-76 – Android App Development Using Java	4.0
CSS-65 – Introduction to IOS App Development	4.0
CSS-78 – Mobile Game Design	4.0
CSS-84 – Beginning Digital Cartooning in Adobe Animate	4.0
	SUBTOTAL: 30 UNITS
General Education – Required Courses	
Students must complete one of the following General Education Pla	anc.
HCCD GE (see page 76)	uis.
English composition Oral communication and Critic	cal thinking
·	cai tillikilig
☐ Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities	
Social and Behavioral Sciences	
Physical and Biological Sciences	
Ethnic Studies	
Lifelong Learning and Self Development	CURTOTAL - 22 LINUTS
Students can double count required sources and sources for Com-	SUBTOTAL: 23 UNITS
Students can double-count required courses and courses for Gene	
■ Electives (Courses Numbered 1-199) required when degree unit	s pius GE units totai jewer than 60.

TOTAL: 60 UNITS

COMPUTER SCIENCE AND INFORMATION SYSTEMS MOBILE DEVELOPMENT OPTION (CT.MD)

CERTIFICATE OF ACHIEVEMENT

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

- anticipate, identify and solve technical and design issues by applying current design standards
- apply knowledge in a variety of computer proficiency areas including web languages, software applications, file transfer protocol, and web and app configuration.

Required Major Courses (14 units)

• • • • • • • • • • • • • • • • • • • •	
BUS-32 – Introduction to Business	3.0
CSS-25 – Multimedia Integration	3.0
CSS-27 – Project Management using Microsoft Project	4.0
CSS-64 – HTML 5 and CSS3 – Web Development	4.0
Major Electives (Complete 8 units)	
CSS-76 – Android App Development Using Java	4.0
CSS-65 – Introduction IOS App Development	4.0

TOTAL: 22 UNITS

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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS WEB DEVELOPMENT OPTION (CT.WD)

CERTIFICATE OF ACHIEVEMENT

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

- anticipate, identify and solve technical and design issues by applying current design standards
- apply knowledge in a variety of computer proficiency areas including web languages, software applications, file transfer protocol, and web and app configuration.

Required Major Courses (14 units)

BUS-32 – Introduction to Business	3.0
CSS-25 – Multimedia Integration	3.0
CSS-27 – Project Management using Microsoft Project	4.0
CSS-64 – HTML 5 and CSS3 – Web Development	4.0
Major Electives (Complete 8 units)	
CSS-26 – Dreamweaver	4.0
CSS-74 – Wordpress for Websites	4.0

TOTAL: 22 UNITS

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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS NETWORK AND SECURITY OPTION

PROGRAMS

- Associate of Science (A.S.)
- Certificate of Achievement

DESCRIPTION

The Associate of Science in Computer Science and Information Systems - Network and Security Option prepares students for employment in the network and security field. It is designed for students interested in becoming network and security specialists in a business that uses networks or information systems. Upon completing the program students will be prepared to take industry-recognized certifications that include: A+ certificate, CCENT, CCNA, Network+, Security+, and Linux+.

CERTIFICATE OF ACHIEVEMENT

This certificate is designed for those interested in becoming network and security specialists in a networked business or information systems environment.

The Computer Science and Information Systems program prepares students taking the Network and Security Option Certificate of Achievement for employment in the network and security field. It is designed for students interested in becoming network and security specialists in a business that uses networks or information systems. Upon completing the program students will be prepared to take industry-recognized certifications that include: A+ certificate, CCENT, CCNA, Network+, Security+, and Linux+.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Computer and Information Systems Managers
- Computer Network Architects
- Computer Network Support Specialists
- Database Administrators
- Information Security Analysts
- Network and Computer Systems
- System Administrator
- Telecommunications Engineering Specialists



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

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

ASSOCIATE OF SCIENCE

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

- design, plan, and implement a small office network, incorporating current industry standards for performance, reliability, and security.
- accurately communicate their work in a technical and non-technical context.
- assemble and configure a computer, install operating systems and software, and troubleshoot hardware, software and networking problems.
- configure business and enterprise networking, storage and virtual equipment (servers and network devices), to create a reliable, secure, and efficient networking infrastructure.

Required Major Courses (40 units)	
☐ CSS-1 – Introduction to Computer Science & Programming Fundamental	s 4.0
CSS-50 – Introduction to Networks: CCNA 1	4.0
CSS-51 – Switching, Routing, and Wireless Essentials: CCNA 2	4.0
CSS-52 – Enterprise Networking, Security, and Automation: CCNA 3	4.0
CSS-53 – Computer Security Principles	4.0
CSS-54 – Network Security Principles	4.0
CSS-55 – Systems and Network Administration	4.0
CSS-56 – Storage Management and Virtualization	4.0
CSS-169 – IT Essentials	4.0
	SUBTOTAL: 36 UNITS
General Education – Required Courses	
General Education – Required Courses Students must complete one of the following General Education Plans:	
General Education – Required Courses Students must complete one of the following General Education Plans: HCCD GE (see page 76)	
Students must complete one of the following General Education Plans: HCCD GE (see page 76)	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking	
Students must complete one of the following General Education Plans: HCCD GE (see page 76)	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning Arts and Humanities	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning Arts and Humanities Social and Behavioral Sciences	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning Arts and Humanities Social and Behavioral Sciences Physical and Biological Sciences	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning Arts and Humanities Social and Behavioral Sciences Physical and Biological Sciences Ethnic Studies	
Students must complete one of the following General Education Plans: HCCD GE (see page 76) English composition Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning Arts and Humanities Social and Behavioral Sciences Physical and Biological Sciences	SUBTOTAL: 23 UNITS

TOTAL: 61 UNITS

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

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

CERTIFICATE OF ACHIEVEMENT

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

- design, plan, and implement a small office network, incorporating current industry standards for performance, reliability, and security.
- accurately communicate their work in a technical and nontechnical context.
- assemble and configure a computer, install operating systems and software, and troubleshoot hardware, software and networking problems.
- configure business and enterprise networking, storage and virtual equipment (servers and network devices), to create a reliable, secure, and efficient networking infrastructure.

Required Major Courses (40 units)

CSS-1 – Introduction to Computer Science and Programming	4.0
CSS-50 –Introduction to Networks: CCNA 1	4.0
CSS-51— Switching Routing and Wireless Essentials: CCNA 2	4.0
CSS-52 — Enterprise Networking, Security and Automation: CCNA 3	4.0
CSS-53 – Computer Security Principles	4.0
CSS-54 – Network Security Principles	4.0
CSS-55 – Systems and Network Administration	4.0
CSS-56 – Storage Management and Virtualization	4.0
CSS-169 – IT Essentials	4.0

TOTAL: 36 UNITS

FINANCIAL AID

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COMPUTER SCIENCE AND INFORMATION SYSTEMS TECHNICAL SUPPORT

PROGRAMS

Certificate of Achievement



DESCRIPTION

The Technical Support Certificate of Achievement combines information technology courses that provide students with the fundamental skills necessary for entry-level computer technical support careers while preparing students for the A+, Security+, and Network + entry-level industry-recognized certificates. Students wishing to advance their career in IT might consider advancing to the Computer Science Associate Degree with a focus on Networking and Security Options and/or certificates focused in security of networking. This certificate is intended to be completed in one year.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Computer User Support Specialist
- Computer, Automated Teller and Office Machine Repairs.

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

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COMPUTER SCIENCE AND INFORMATION SYSTEMS TECHNICAL SUPPORT (CT.TS)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the ability to communicate and present concepts in information technology (IT).
- demonstrate the ability to communicate and document problem, analysis, and resolution processes for technical-related issues.
- demonstrate the ability to implement solutions to customers' technical problems that minimize risk and disruption to productivity.

Required Major Courses (16 units)

CSS-50 – Introduction to Networks: CCNA 1	4.0
CSS-169 – IT Essentials	4.0
CSS-53 – Computer Security Principles	4.0
${\it BUS-43-Business\ Information\ System\ and\ Information\ Literacy}$	4.0
OR	
CSS-57 – Introduction to UNIX/Linux Systems	4.0

TOTAL: 16 UNITS

FINANCIAL AID

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CONSTRUCTION MANAGEMENT AND ARCHITECTURE

PROGRAM

Associate of Science (A.S.)



DESCRIPTION

The Associate of Science Degree in Construction Management and Architecture provides a comprehensive introduction to the construction management profession and professional architectural studies. Students select an Associate of Science Degree emphasis in either Construction Management or Architecture, which share interdisciplinary core courses. Licensed professionals instruct students in principles of sustainability, fundamental construction field skills and methods, construction management principles, and architectural design theory. Under practical field and professional studio conditions, students apply current leading industry construction techniques, and computer-aided design and management technologies.

Construction Management Emphasis:

The Construction Management emphasis provides the basic practical construction skills and advanced technical knowledge necessary to enter directly into a professional construction management career. Licensed contractors instruct students in lecture, field practice, and studio settings.

Architecture Emphasis:

The Architecture emphasis provides a basic practical knowledge of field construction skills and practices, sustainable building design principles, together with the basic visual communication skills and digital computer drawing skills necessary for entry-level architectural drafting employment and first-year architectural design transfer credits for a university architectural program.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Auditor
- Certification Manager
- Commissioner
- Construction Manager
- Green Building Designer
- Inspector
- Sustainable Building Designer

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

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

FINANCIAL AID

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CONSTRUCTION MANAGEMENT AND ARCHITECTURE (AS.CMA)

ASSOCIATE OF SCIENCE

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

Construction Management Emphasis:

- identify and select alternate construction education pathways and construction career opportunities.
- apply basic levels of knowledge and experience in construction craft skills and commercial business operations necessary to effectively manage small commercial and residential construction project activities.
- analyze and apply standard construction contract terms, conditions, plans, specifications, costing formats, and basic regulatory requirements applicable to a range of construction activities.
- apply basic construction management methods to monitor and control compliance with contract requirements for price, time schedule, specifications, and safety on small projects.

Architecture Emphasis:

- identify and select alternate architectural education pathways and architectural career opportunities.
- apply basic principles of commercial and residential construction materials and methods to architectural design.
- apply basic architectural design principles to generate an architectural design solution to a specific set of constraints.
- describe and apply sustainable environmental design principles to architectural design solutions.
- apply manual and digital techniques to produce drawings and three-dimensional models documenting architectural and engineering designs.

Required Major Courses (20 units)			
CMA-51 – Introduction to Construction Management and Architecture	3.0		
CMA-55 – Introduction to Structural Design and Codes	3.0		
CMA-57 – Construction Law and Contracts	3.0		
CMA-61 – Construction Field Practice: Layout, Foundations & Framing	4.0		
CMA-62 – Construction Field Practice: Exterior and Interior Finish	4.0		
CMA-81 – Computer Aided Drafting and Design I	3.0		
Required Major Courses (Complete one emphasis 15 units)			
CONSTRUCTION MANAGEMENT − CMA-52, 53, 54, 56, 91	15.0		
ARCHITECTURE – CMA-70, 71, 72, 82, 83	15.0		
Major Elective Courses (Complete 3 units from the same emphasis as above)			
CONSTRUCTION MANAGEMENT – CMA-63, 64, 65, 66, 84, 90, EGN-11 3.0			
ARCHITECTURE – CMA-53, 84, 90, 91, EGN-11	3.0		
	SUBTOTAL: 38 UNITS		
General Education – Required Courses			
Students must complete one of the following General Education Plans:			
HCCD GE (see page 76)			
☐ English composition ☐ Oral communication and Critical thinking			
Mathematical Concepts and Quantitative Reasoning			
Arts and Humanities			
Social and Behavioral Sciences			
Physical and Biological Sciences			
Ethnic Studies			
Lifelong Learning and Self Development			
	SUBTOTAL: 23 UNITS		

TOTAL: 60 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.

DIGITAL ARTS

PROGRAMS

- Associate of Arts (A.A.)
- Certificate of Achievement

DESCRIPTION

The Digital Arts program offers a certificate and associate degree in 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 animation and interactive digital media interface design. The AA degree in Digital Arts offers 3 tracks of specialization; graphic design for print, screen and time-based, digital photography and video, or digital animation and illustration. An imaginative blend of art, design, photography, video, animation and illustration is applied to producing digital media presentations for business, education, entertainment, telecommunication and medical industries graduates in Digital Arts are qualified for positions in graphic design, digital art, web design, game design, 2D illustration, digital photographic imaging, audio engineering, video editing, digital video, or digital media interface design. Graduates in Digital Arts with animation specialization are qualified for positions in 3D digital art, game design, storyboard art, 3D modeling, character animation, digital 3D broadcast logo design, digital 3D volumetrics, 3D animation and compositing, 2D digital art, 2D compositing, 2D chroma key, 2D texture painting, or rotoscoping.

For detailed requirements for individual four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Art Director
- Art Marketing Director
- Design Studio Manager
- Freelancer
- Game Designer
- Graphic Designer
- Layout Artist
- Multimedia Artist and Animator



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

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

Photographer

Web Designer

Publications Designer

DIGITAL ARTS (AA.DA)

ASSOCIATE OF ARTS

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

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

Graphic Design	Complete 2 courses from ART-12A, ART-78, ART-84, PHO-1
Digital Photography/Video	Complete 2 courses from PHO-1, PHO-2, ART-12A, ART-84
Digital Animation/Illustration	Complete 2 courses from ART-73, ART-3, ART-13, ART-84

Required Major Courses (21 units)	
☐ ART-70 – Introduction to Graphic Design/Computer Graphics	3.0
ART-71 – Introduction to 2D Digital Illustration	3.0
ART-72 – Introduction to Digital Arts	3.0
ART-74 – Digital 3D Design and Modeling	3.0
ART-76 – Introduction to 3D Digital Animation	3.0
☐ ART-77 − Introduction to Digital Video and Video Editing	3.0
ART-80 – Introduction to Digital Photography and Photographic Imaging	3.0
Major Electives (Complete 6 units)	
ART-3 – Drawing and Composition	3.0
ART-12A – Design	3.0
ART-13 – Three-Dimensional Design	3.0
☐ ART-73 – Introduction to Digital Illustration for Animation	3.0
ART-78 – Motion Graphics and Design Principles	3.0
ART-84 – Digital Art Portfolio and Business Practices	3.0
☐ PHO-1 – Introduction to Photography	3.0
☐ PHO-2 — Beginning Black and White Photography	3.0
	SUBTOTAL: 27 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76)

SUBTOTAL: 23 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: 60 UNITS

DIGITAL ARTS (CT.DA)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (21 units)

ART-70 – Introduction to Graphic Design/Computer Graphic 3			
ART-71 – Introduction to 2D Digital Illustration	3.0		
ART-72 – Introduction to Digital Arts	3.0		
ART-74 – Digital Three Dimensional Design and Modeling	3.0		
ART-76 – Introduction to 3D Digital Animation	3.0		
ART-77 – Introduction to Digital Video and Video Editing	3.0		
ART-80 – Introduction to Digital Photographic Imaging	3.0		
Major Electives (Complete 3 units)			
Major Electives (Complete 3 units) ART-12A – Design	3.0		
· · · · · · · · · · · · · · · · · · ·	3.0 3.0		
ART-12A – Design			
ART-12A – Design ART-13 – Three Dimensional Design	3.0		
 □ ART-12A – Design □ ART-13 – Three Dimensional Design □ ART-73 – Introduction to Digital Illustration Animation □ ART-78 – Motion Graphics and Design Principles 	3.0 3.0		

TOTAL: 24 UNITS

FINANCIAL AID

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EARLY CHILDHOOD EDUCATION

PROGRAMS

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

DESCRIPTION

ASSOCIATE DEGREE 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 interested in 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 care of young children from diverse family backgrounds. Includes instruction in parent education as well as preparation for employment in child development centers, family child-care settings, preschools, before- and after-school care programs, programs for children with special needs, and other ECE related-programs in the community.

The ECE curriculum provides coursework with specializations in the administration of ECE programs, infant/toddler development and care, advanced ECE curriculum, and special needs. Students will be eligible to meet the Department of Social and Employment Services Title 22 and Education Code Title 5 licensing regulations for teaching personnel and administrative staff in private and public child development programs and agencies.

As a result of ongoing changes in laws, mandates, and licensing regulations for teaching personnel and ECE programs, the information in the Permit table is subject to change. It is important for students to consult with a counselor to develop an educational plan for the desired permit or credential.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Child Development Specialist
- Community Service Agent
- Curriculum Specialist
- Day Care Administrator
- Early Intervention Specialist
- Kindergarten Teacher
- Parenting Educator

- Preschool Teacher
- Social Worker
- Teacher Assistant
- 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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EARLY CHILDHOOD EDUCATION FOR TRANSFER (AST.ECE)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- 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.
- assess and evaluate all children and learning environments to write reports according to state mandated guidelines.
- work with families and their children to build respectful, supportive relationships for optimum growth and development of young children
- connect with community agencies and programs to support children, families, and the early education and care profession.

Required Major Courses (25 units)

${\sf ECE-1-Principles} \ {\sf and} \ {\sf Practices} \ {\sf of} \ {\sf Teaching} \ {\sf Young} \ {\sf Children}$	3.0
ECE-2 – Child, Family, School & Community Relations	3.0
ECE-4 – Introduction to Curriculum	3.0
ECE-6 – Child Growth and Development	3.0
ECE-10 – Observation and Assessment	3.0
ECE-12 – Practicum: Field Teaching Experience	4.0
ECE-19 – Health, Safety, and Nutrition in Early Childhood	3.0
ECE-53 – Teaching in a Diverse Society	3.0

SUBTOTAL: 25 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 78)

IGETC (see page 80)

39 units
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.

EARLY CHILDHOOD EDUCATION (AS.ECE)

ASSOCIATE OF SCIENCE

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

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

Child Development P	Child Development Permit issued by the Commission on Teaching Credentialing (CTC) – Educational and Experience Day Requirements				
Teacher Assistant	Requires any 6 ECE units				
Associate Teacher	Requires 12 core ECE units (ECE 1, ECE 2, ECE 4, ECE 6) and 50 days of experience at 3+ hours per day				
Teacher	Requires 24 ECE units (including 12 core ECE units) plus 16 General Education units (a minimum of one course in each of these 4 areas: humanities and/or fine arts, social sciences, math and/or science, and English and/or language arts) and 175 days of experience at 3+ hours per day				
Master Teacher	Teacher level permit requirements plus ECE 71, 350 days of experience at 3+ hours per day, and six ECE units from the following specializations:				
Curriculum	Select 6 units from ECE 9, ECE 8, ECE 54				
Infant/Toddler	Select 6 units from ECE 20, ECE 21				
Special Needs	Select 6 units from ECE 26, ECE 27				
Administration	Select 6 units from ECE 70A, ECE 70B, ECE-71				
Site Supervisor	Requires an AS with 24 ECE units, ECE 70A, ECE 70B, ECE 71 and 350 days of experience at 3+ hours per day, including at least 100 days of supervising adults				
Program Director	Requires a BA with 24 ECE units, ECE 70A, ECE 70B, ECE 71 and Site Supervisor status with one program year of Site Supervisor experience				

Required Major Courses (25 units) ☐ ECE-1 – Principles and Practices of Teaching Young Children 3.0 ECE-2 – Child, Family, School & Community Relations 3.0 ECE-4 – Introduction to Curriculum 3.0 ECE-6 – Child Growth and Development 3.0 ECE-10 – Observation and Assessment 3.0 ECE-53 — Teaching in a Diverse Society 3.0 ☐ ECE-19 – Health, Safety and Nutrition in Early Childhood 3.0 ECE-12 – Practicum: Field Teaching Experience 4.0 Major Electives (Complete 6 units) ECE-8 – Math and Science in Early Childhood 3.0 ☐ ECE-54 – Language and Early Literacy Curriculum 3.0 ECE-9 – Creative Expressions and play in Early Childhood 3.0 ☐ ECE-20 – Infant and toddler Development 3.0 ECE-21 – Infant Toddler Group Care 3.0 ECE-26 – Children with Special Needs 3.0 ECE-27 – Principles and Practices in Guiding Children's Behavior 3.0 ECE-70A – Administration I: Programs in ECE 3.0 □ ECE-70B – Advanced Administration II: 3.0 ☐ ECE-71 – Adult Supervision and Mentoring in ECE Settings 2.0 **SUBTOTAL: 31 UNITS General Education - Required Courses** Students must complete the following General Education Plans: **HCCD GE** (see page 76) ☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning Arts and Humanities Social and Behavioral Sciences ☐ Physical and Biological Sciences Ethnic Studies Lifelong Learning and Self Development

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: 60 UNITS

SUBTOTAL: 23 UNITS

EARLY CHILDHOOD EDUCATION (CT.ECE)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (25 units)

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

TOTAL: 25 UNITS

FINANCIAL AID

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ECONOMICS

PROGRAM

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



DESCRIPTION

The Associate in Arts degree in Economics for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate Economics degree programs at a California 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 the study of how people choose to use scarce resources to produce goods and services and how they make allocation decisions to satisfy their wants and needs. In pursuing the Associate in Arts in Economics for Transfer degree, students acquire skills to analyze problems and then to use sound reasoning to make decisions. Students majoring in economics develop critical thinking, problem solving, and communication skills. As economic majors, students have learning opportunities that are relevant to many types of careers, including economists, public policy, government agencies and government related organizations (for example, the Federal Reserve System and the Bureau of Labor Statistics), business, finance, data analysis, accounting and education. 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:

- Actuary
- Auditor
- Business Manager
- Credit Analyst/Loan Officer
- Economist
- Financial Planner/Analyst
- Government Administrator
- Healthcare Administrator
- Institutional Research Director
- Journalist
- Teacher

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 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

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ECONOMICS FOR TRANSFER (AAT.ECO)

ASSOCIATE IN ARTS FOR TRANSFER

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

- apply economic theories and economic reasoning to real life situations using the concepts of scarcity, opportunity cost and supply and demand for individual (micro) and collective (macro) decision-making.
- evaluate the goal, limitations, and mechanics of government intervention such as regulation, taxation, tariffs, quotas, and monetary and fiscal policies.

Required Major Courses (14 units) ECO-1 – Principles of Macroeconomics 3.0 ECO-5 – Principles of Microeconomics 3.0 MAT-2 – Calculus for Managerial Life, & Social Science 4.0 OR MAT-3A - Analytic Geometry and Calculus I 4.0 MAT-13 – Elementary Statistics 4.0 Major Electives A (Complete 1 course 3-4 units) BUS-1A – Financial Accounting 3.0 BUS-1B – Managerial Accounting 3.0 BUS-43 – Business Info Systems & Info Literacy 4.0 ECO-10 – Introduction to Economics 3.0 MAT-3B – Analytic Geometry and Calculus II 4.0 MAT-16 – Finite Mathematics 3.0 Major Electives B (Complete 1 course 3-4 units) Any list A courses not already used 3.0-4.0 MAT-3C – Analytic Geometry and Calculus II 4.0 MAT-4 – Linear Algebra 4.0 **SUBTOTAL: 20-22 UNITS**

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 78)

IGETC (see page 80)

39 units

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.

ELEMENTARY TEACHER EDUCATION

PROGRAM

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



DESCRIPTION

The A.A. Degree in Elementary Teacher Education is intended 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 OPPORTUNITIES SUCH AS:

- Counselor
- Curriculum Specialist
- Day Care Administrator
- Elementary School Administrator
- Elementary School Teacher
- Resource Teacher
- Special Education Teacher
- Speech Pathologist
- Training Specialist
- 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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ELEMENTARY TEACHER EDUCATION (AAT.ETP)

ASSOCIATE IN ARTS FOR TRANSFER

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

- clarify and articulate career goals of becoming a teacher.
- demonstrate a basic grasp of the disciplines most commonly taught in elementary schools in California, including physical science, biology, art, and literature in a cultural or geographic context, world geography, United States history, and United States government.
- transfer into the traditional Liberal Studies major.

Required Major Courses (41 units) BIO-10 – General Biology 4.0 COM-1 – Introduction to Public Speaking 3.0 EDU-1 – Introduction to Education in a Changing World 3.0 ■ ENG-1A – College Composition and Reading 3.0 ☐ ENG-1B – College Literature and Writing 3.0 ☐ ENG-2 – Critical Thinking and Writing 3.0 ECE-6 – Child Development 3.0 GEG-10 – Geography and World Affairs 3.0 GEL-1 – Physical Geology 4.0 HIS-5A – World History A 3.0 HIS-17A – United States History A 3.0 MAT-12 – Number Systems 3.0 POL-1 – American Political Institutions 3.0 Required Major Courses (Complete 1 course 4-8 units) PHY-32 – Survey of Chemistry and Physics 4.0 CHM-22 - The Science of Chemistry 8.0 PHY-10 – Introduction to Physics Major Electives (Complete 3 units) ART-10 – Art Appreciation 3.0 MUS-1A – Music Appreciation-Historical Perspective 3.0 TAC-1 – Introduction to Theatre 3.0 **SUBTOTAL: 48-52 UNITS 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:

- 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 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.
- Obtainment of 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.

EMERGENCY MEDICAL TECHNICIAN – LEVEL 1

PROGRAMS

Certificates of Achievement

DESCRIPTION

This certificate prepares students with comprehensive instruction in the skills necessary for success as an emergency medical technician (EMT) in the emergency services industry. This program is designed to meet the needs of current students and in-service professionals interested in career advancement and those seeking to advance their EMT knowledge. This program is aligned with the EMT-Basic: National Standard Curriculum. Career opportunities after completing the certificate include EMT, Emergency Room Technician, and Search and Rescue.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Emergency Medical Technician
- Paramedic
- Firefighter

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

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EMERGENCY MEDICAL TECHNICIAN – LEVEL 1 (CT.EMT)

CERTIFICATE OF ACHIEVEMENT

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

- apply scientific knowledge in providing prehospital and emergency medical care.
- use effective communication and interpersonal skills with patients and other healthcare workers.
- operate within the role of an entry-level provider of care and contributor to the emergency medical 2 service profession.
- demonstrate high prehospital and emergency medical practice standards in skill performance and patient advocacy.
- provide competent and safe care in a variety of settings to a group of patients with diverse needs across the lifespan by demonstrating knowledgeable decision-making and judgment based on critical thinking, clinical competence, accountability, and collaboration with the patient and healthcare team.
- promote each student's personal and professional growth, health, and success.
- promote the concept of lifelong learning, including the pursuit of advanced degrees and advanced practice in the health field.
- prepare graduates eligible to seek licensure as EMTs and meet emergency medical service professional expectations.

FINANCIAL AID

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

Required Major Courses (12 units)

HES-80 – Medical Terminology 3.0
EMT-53 – Emergency Medical Technician 9.0

TOTAL: 12 UNITS

*Recommended sequence. Courses can be scheduled before or concurrently with EMT-53.

ENGINEERING

PROGRAMS

• Associate of 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 problem-solvers who make things work faster, cheaper, and more efficiently. Technologies developed by engineers improve the ways that we live, communicate, work, travel, stay healthy, and entertain ourselves. From computer chips to cellphones and buildings to automobiles, engineering makes every aspect of our modern life possible.

Hartnell College offers a two-year lower division engineering program that prepares students for transfer in all engineering disciplines to colleges and universities in California and across the United States. The Associate in Science in Engineering offers course work in all fields of engineering from civil through mechanical and electrical and computer engineering. Students who are seeking to transfer to a four-year university and complete their Bachelor of Science in Engineering can find the courses needed to transfer in the Engineering program, as can students who are seeking employment in related fields as engineering technologists, surveyors, or construction managers. Positions for which four-year graduates in engineering are qualified can be found in the fields of engineering, engineering technology, construction management, business, programming, teaching, and research.

The first two years of the engineering curriculum at most colleges and universities have a shared core of mathematics and physics plus a programming course. Beyond that, there is specialization in several areas. As there are different disciplines within engineering, four different tracks have been developed, and each one feeds into one or more majors at the baccalaureate level. The fifth track is appropriate for engineering majors who are not explicitly listed in the first four tracks, such as chemical engineering or biomedical engineering. The five discipline clusters are:

- 1. Mechanical, Aerospace, and Manufacturing Engineering
- 2. Civil Engineering
- 3. Electrical Engineering
- 4. Computer and Software Engineering
- 5. General Engineering

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Construction Engineer
- Electrical Engineer

- Environmental Engineer
- Industrial Engineer
- Manufacturing Engineer
- Materials Engineer
- Mechanical Engineer
- Nuclear Engineer
- Software Engineer



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 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

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ENGINEERING (AS.EGN)

ASSOCIATE OF SCIENCE

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

- employ science and mathematical skills commonly used in engineering fields.
- design a system, component, or process to meet engineering requirements.
- examine engineering problems and determine a strategy.
- describe and differentiate modern engineering tools and practices.

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 class: Choice of EGN 5 or CSS 2A or CSS 1	3-4

SUBTOTAL: 21-22 UNITS

SELECT ONE TRACK (COMPLETE 3-9 UNITS)

MECHANICAL/AEROSPACE/MANUFACTURING ENGINEERING TRACK

EGN 8 Statics	3	
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CIVIL ENGINEERING TRACK

EGN 8 Statics	2	
I FIGN X STATICS	≺ I	
Laive Statics	9	

ELECTRICAL ENGINEERING TRACK

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

SUBTOTAL: 3-9 UNITS

REQUIRED MAJOR ELECTIVES (COMPLETE 12-23 UNITS FROM SELECTED TRACK

SELECT ONE EMPHASIS TO FOLLOW	Units	Mechanical/ Aerospace/ Manufacturing	Civil	Electrical	Computer	General
Number of ADDITIONAL units to choose		23	22	12	15	20
☐ EGN-1L – Introduction to Engineering Lab	1	Х	Х	Χ	Х	Х
☐ EGN-2 – Engineering Graphics	3	Х	Х			Х
☐ EGN-4 – Materials Science and Engineering	4	X	Х			Х
☐ EGN-5 – Programming and Problem-Solving in MATLAB	3			Χ	Х	Х
☐ EGN-6 – Circuit Analysis	4	Х				Х
☐ EGN-7L – Computer Interface with the Physical World	1	Х		Х		Х
Laboratory						
☐ EGN-8 – Statics	3					X
☐ EGN-11 – Surveying	3		Х			X
☐ BIO-1 – Fundamental Biological Concepts	5					X
☐ BIO-2 – General Zoology	5					X
☐ BIO-3 – General Botany	5					X
CHM-1A – General Chemistry I	5	X	Х	Χ	X	X
CHM-1B – General Chemistry II	5					X
CHM-12A – Organic Chemistry I	5					X
CHM-12B – Organic Chemistry I	5					Х
PHY-4C – General Physics III/ Waves, Heat, Light, Sound, and Modern Physics	4	Х	Х	X	Х	Х
MAT-3C – Analytical Geometry and Calculus III	4	X	Х	Χ	X	X
MAT-5 – Differential Equations	3	X	Х	Χ	X	X
MAT-4 – Linear Algebra	3	X	Х	Χ	X	X
CSS-1 – Intro to Computer Science & Programming Fundamentals	4					Х
CSS-2A – Object Oriented Programming	4			Χ		Х
CSS-2B – Data Structures and Algorithms	4			Х	Х	Χ
CSS-3 – Computer Architecture and Assembly Language Programming	4				Х	Х
CSS-7 – Discrete Structures	4				Х	X

SUBTOTAL: 37-48 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE for STEM (see page 78) 33 units IGETC for STEM (see page 80) 31 units

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

Partial IGETC-CSU or CSU-GE certification is approved to meet the AS- Engineering general education. For the partial certification: (IGETC/CSU - All AREAS will be completed with minimum units/courses as required and listed on IGETC except AREAS 3 and 4, which is approved with 6 units/2 courses. CSU-GE All AREAS will be completed with minimum units/courses as required and listed on CSU-GE except AREAS C and D, which are approved with 6 units/2 courses). These GE courses are not waived but will be completed after transfer

TOTAL: 61-74 UNITS

ENGINEERING FUNDAMENTALS

PROGRAMS

Certificate of Achievement

SCIENCE • TECHNOLOGY ENGINEERING • MATHEMATICS

DESCRIPTION

A student completing the Engineering Fundamentals Certificate of Achievement will gain a solid grounding in the basic principles that underlie all engineering disciplines. This certificate provides both academic preparation for and a pathway to internships. When combined with further study, it will lead to the Engineering Associate in Science Degree and/or transfer. This certificate is intended to be completed at the beginning of a student's course of study, while they are at the freshman level. As such, it prepares a student to enter most sophomore-level engineering and STEM support courses. This certificate is specifically designed to encourage and guide students to select their courses in a sequence which enables them to transfer as fast as possible. Recommendations based on majors are as follows:

- Civil or Mechanical engineering majors: Engineering 5 AND Chemistry 1A
- Computer or Software engineering majors: Computer Science 1 AND Computer Science 2A
- Electrical engineering majors: Computer Science 1 AND (Computer Science 2A OR Chemistry 1A)

Students should discuss which options make sense for them with their counselor.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Aerospace Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Electrical Engineer
- Industrial Engineer
- Mechanical Engineer

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

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ENGINEERING FUNDAMENTALS (CT.EGN)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the ability to write computer programs and apply them towards solving engineering problems.
- acquire, develop, and refine the prerequisite mathematics, physics, and chemistry foundational skills to be successful in sophomore level engineering courses such as Statics, Circuit Analysis, or Materials Science and Engineering.
- formulate and demonstrate a plan to appropriately select the courses they will need to transfer to a four-year university.

Recommended electives by major:

Civil/Mechanical Engineering	EGN-5, CHM-1A				
Computer Engineering	CSS-1, CSS-2A				
Electrical Engineering	CSS-1, CSS2A or CHM-1A				

Required Major Courses (17-19 units)

MAT-3A – Analytic Geometry and Calculus I	4.0
MAT-3B – Analytic Geometry and Calculus II	4.0
PHY-4A – General Physics I/Mechanics	4.0
☐ EGN-1R – Introduction to Engineering	2.0
OR	
EGN-1 – Introduction to Engineering	3.0
☐ ENG-1A − College Composition and Reading	3.0
OR	
ENG-1AX – College Composition and Reading	4.0
Major Electives (Complete 7-9 units)	
☐ EGN-5 – Programming and Problem Solving in MATLAB	3.0
☐ CSS-1 — Intro to Computer Science & Programming Fundamentals	4.0
CSS-2A – Object Oriented Programming	4.0
CHM-1A – General Chemistry I	5.0

5.0

FINANCIAL AID

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

TOTAL: 24-28 UNITS

PROGRAM

Associate in Arts for Transfer (A.A.-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 advertising, business, communications media, public relations, law, government service, and teaching. For detailed requirements for individual four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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

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

FINANCIAL AID

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ASSOCIATE IN ARTS FOR TRANSFER

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

- apply appropriate interpretive strategies to read, discuss, and analyze a variety of works of literature within any given genre and expository
- analyze and evaluate major themes and techniques found in literature and expository texts by applying appropriate writing strategies and skills.
- demonstrate an appreciation for the aesthetic value of literature and expository texts from a diversity of cultural, historical, and ethnic perspectives.

Required Major Courses (6 units)

ENG-2	2 – Critical Thinking	and Writings	3.0
lajor Elective	es A (Complete 9 ur	nits)	

ENG-1B – College Literature and Composition

Ma ☐ ENG 22 Studios of Bootry

ENG-22 – Studies of Poetry	3.0
☐ ENG-24 – The Short Story	3.0
☐ ENG-31 – Beginning Creative Writing	3.0
☐ ENG-44A – World Literature I	3.0
☐ ENG-44B – World Literature II	3.0
☐ ENG-46A — Survey of British Literature I	3.0
☐ ENG-46B — Survey of British Literature II	3.0
☐ ENG-47A — Survey of American Literature I	3.0
☐ ENG-47B — Survey of American Literature II	3.0

Ma

ijor Electives B (Complete 3 units)	
☐ ENG-17 – The Contemporary Shakespeare	3.0
☐ ENG-26 – Chicanx Literature	3.0
☐ ENG-41 – Art of Steinbeck	3.0
☐ ENG-48 – Introduction to Children's Literature	3.0

SUBTOTAL: 18 UNITS

3.0

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:

- 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 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.
- Obtainment of 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.

ENGLISH FOR MULTILINGUAL SPEAKERS—BEGINNING (NCCT.ENGM.BEG)

PROGRAM

Certificate of Competency



DESCRIPTION

The Certificate of Competency in 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 with reading, writing, listening, and speaking skills at the beginning level. The certificate prepares 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 beginning 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 sentence to paragraph level writing. Students will be able to apply those skills to further English studies, both credit and noncredit, as well as employment opportunities in the Salinas Valley. These are no-cost courses, however, students will pay for required textbooks.

Program Objective: Upon successful completion of this program, a student will be able to respond to and produce information and yesno questions; understand the topic and main idea of a short talk or text; produce statements about everyday life and personal experiences; and write a short description using coherent English at the high-beginning level.

REQUIRED COURSES

L	_ ENGIVI-620 – Beginning	g Keading	and v	writing 1.	28-144r	1rs
	☐ ENGM-622 – Beginning	g Speakin	g and	Listening	64-72h	ırs

ENGLISH FOR MULTILINGUAL SPEAKERS—LOW INTERMEDIATE (NCCT.ENGM.LOW)

PROGRAM

Certificate of Competency



DESCRIPTION

The Certificate of Competency in English for Multilingual Speakers—Low Intermediate is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 630, Low-Intermediate Reading and Writing, and ENGM 632, Low-Intermediate Speaking and Listening. This noncredit program provides students with reading, writing, listening, and speaking skills at the low-intermediate level. The certificate prepares 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 low-intermediate 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 noncredit, as well as employment opportunities in the Salinas Valley. These are no-cost courses; however, students will pay for required textbooks.

Program Objective: Upon successful completion of this program, a student will be able to understand the topic and main idea of a short lecture or text, produce questions to request help or more information, write a short paragraph, use the college registration system (PAWS) to find courses and register, and access course information using CANVAS.

REQUIRED COURSES

ENGIN-630—Low-Intermediate Reading and Writing 122-144 hrs
ENGM-632—Low-Intermediate Speaking and Listening 64-72 hrs

ENGLISH FOR MULTILINGUAL SPEAKERS—INTERMEDIATE (NCCT.ENGM.INT)

PROGRAM

Certificate of Competency



DESCRIPTION

The Certificate of Competency in English for Multilingual Speakers—Intermediate is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 640, Intermediate Reading and Writing, and ENGM 642, Intermediate Speaking and Listening. This noncredit program provides students with reading, writing, listening, and speaking skills at the intermediate level. The certificate prepares 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 intermediate 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 noncredit, as well as employment opportunities in the Salinas Valley.

These are no-cost courses; however, students will pay for required textbooks.

Program Objective: Upon successful completion of this program, a student will be able to summarize short academic lectures or texts, express and defend opinions, use past tense when discussing personal or familiar topics, and use CANVAS to submit assignments and communicate with instructors.

REQUIRED COURSES

L		ENGM-640—Intermediate Reading & Writing 122-144 hr
Γ	\neg	ENGM-642—Intermediate Listening & Reading 64-72 hrs

ENGLISH FOR MULTILINGUAL SPEAKERS—HIGH INTERMEDIATE (NCCT.ENGM.HIGH)

PROGRAM

Certificate of Competency



DESCRIPTION

The Certificate of Competency in English for Multilingual Speakers—High Intermediate is awarded upon the successful completion of English for Multilingual Speakers (ENGM) 650, High-Intermediate Grammar and Writing, and ENGM 658, High-Intermediate Reading and Vocabulary. This noncredit program provides students with reading, writing, listening, and speaking skills at the high-intermediate level. The certificate prepares 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 high-intermediate 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, use of context clues to identify the meanings of new words, use of the writing process to plan, draft, and revise a paragraph. Students will be able to apply those skills to further English studies, both credit and noncredit, as well as employment opportunities in the Salinas Valley. These are no-cost courses; however, students will pay for required textbooks.

Program Objective: Upon successful completion of this program, a student will be able to use a variety of sentence structures, demonstrating correct use of conjunctions; write a unified, cohesive paragraph; identify topics, main ideas, details in low-advanced readings; distinguish fact from fiction; and use context clues to identify the meaning of new vocabulary.

REQUIRED COURSES

L	ENGM-650 – High-Intermediate Writing and Grammar 128-144h
ſ	ENGM-658 – High-Intermediate Reading and Writing 64-72hrs

ENGLISH FOR MULTILINGUAL SPEAKERS—ADVANCED (NCCT.ENGM.ADV)

PROGRAM

Certificate of Competency



DESCRIPTION

The Certificate of Competency in 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 with reading, writing, listening, and speaking skills at the advanced level. The certificate prepares 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 of longer texts, group discussion and class presentation skills, and accurate note taking. Students will be able to apply those skills to transfer-level coursework, as well as employment opportunities in the Salinas Valley. These are no-cost courses; however, students will pay for required textbooks.

Program Outcome: Upon 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 essay writing, summarizing articles and short lectures, and note taking.

REQUIRED COURSES

Ш	ENGM-660— Reading and Writing for College 80-90 hrs
	ENGM-662 - College Speaking and Listening Skills 48-54 hrs

PROGRAM

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



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 degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of "C" (or "P") for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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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.

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- apply the scientific method to problem solving, devising a research plan, and evaluating data and findings.
- demonstrate an understanding of environmental issues, their underlying causes and potential solutions from an interdisciplinary perspective.
- analyze, interpret, and evaluate quantitative and qualitative evidence regarding the causes and consequences of human impacts on the environment.

Required Major Courses (15 units) ☐ BIO-1 – Fundamental Biological Concepts 5.0 CHM-1A – General Chemistry I 5.0 CHM-1B – General Chemistry II 5.0 **Required Major Courses (15 units)** ☐ BIO-48 – Environmental Science 3.0 GEL-1 – Physical Geology 4.0 MAT-13 – Elementary Statistics 4.0 MAT-3A – Analytic Geometry and Calculus I 4.0 MAT-2 – Calculus for Managerial Life and Social Sciences 4.0 Restricted Major Electives: Select 3 courses (11 units) ECO-5 – Principles of Microeconomics 3.0 PHY-4A – General Physics I/Mechanics 4.0 AND PHY-4B - General Physics II/Electricity and Magnetism 4.0 PHY-2A – College Physics I 4.0 AND PHY-2B - College Physics II 4.0 **SUBTOTAL: 41 UNITS**

General Education – Required Courses

Students must complete one of the following General Education Plans:

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.



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.

TOTAL: 60 UNITS

FILM, TELEVISION, AND ELECTRONIC MEDIA

PROGRAM

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



DESCRIPTION

The Associate in Science degree in Film, Television, and Electronic Media provides a clearly articulated curricular track for students who wish to transfer to baccalaureate Film, Television, and Electronic Media (FTVE) degree programs at a California State University (CSU) campus. This degree provides the lower division FTVE major courses required at many CSUs while exposing students to the core principles of the field. 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. Courses are designed for the general education student and for those who may pursue FTVE as a major or as a career. Career options include camera operator, production technician, documentary film maker, video producer, radio DJ, radio technician, production assistant, video editor, actor, teacher, or commercial production technician. Careers with a technical emphasis include media technician, concert venue technician, theme park technician, stage manager, designer, art director, facilities manager, or technical director.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Actor
- Art Director
- Camera Operator
- Commercial Production Technician
- Concert Venue Technician
- Designer
- Documentary Film Maker
- Facilities Manager
- Media Technician
- Production Assistant

- Production Technician
- Radio DJ
- Radio Technician
- Stage Manager
- Teacher
- Technical Director
- Theme Park Technician
- Video Editor
- Video Producer

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

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FILM, TELEVISION, AND ELECTRONIC MEDIA (AST.FTVE)

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- demonstrate proficiency in theatre, film, television, & electronic media terminology and performance skills, its basic theories, history and techniques, culminating in a media production or live performance on stage.
- conduct and apply analysis and research skills of dramatic texts and instructional materials.
- work effectively as an ensemble member in a fully produced production formulating alternative solutions to theatrical, film, television, & electronic media production situations.
- analyze, interpret, and evaluate their own and others' work in theatre, film, television, & electronic media as a patron and participant.

Required Major Courses (18 units)

TAC-50 – Introduction to Film: the Classics to the 1960s	3.0
TAC-51 – Television Studio Production	3.0
OR	
TAC-54 – Video Production Lab – Single Camera	3.0
TAC-57 – Introduction to Electronic Media	3.0
TAC-58 – Introduction to Media Writing	3.0
TAC-59 – Beginning Audio Production	3.0
TAC-53 – Playwriting and Screenwriting	3.0
OR	
ART-78 – Motion Graphics and Design Principles	3.0

SUBTOTAL: 18 UNITS

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.

GENERAL STUDIES: ARTS AND HUMANITIES

PROGRAMS

Associate of Arts (A.A.)

ARTS & LANGUAGES

DESCRIPTION

The General Studies program offers students a comprehensive education emphasizing in the study of cultural, literary, humanistic activities, artistic and creative expression of human beings. The Arts and Humanities emphasis offers students an opportunity to evaluate and interpret fundamental questions of value, culture, purpose, and meaning in a rigorous and systematic way. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. Courses encompass subjects such as philosophy, art, ethics, theory, culture, linguistics, jurisprudence, religion, theory, literature, history, music, theater, languages and more.

By engaging in careful educational planning with a counselor, this degree is for students seeking to explore various disciplines in the Arts and Humanities before committing to a specific major for transfer to a four-year university. This program is designed for students with specific majors that currently lack predefined pathways. It is particularly suitable for those who do not have the option of pursuing an Associate Degree for Transfer (ADT). Alternatively, it accommodates students who may not have transfer plans but desire to obtain a degree in an area of personal interest or enter the workforce with a diverse skill set while also paving the way for career advancement opportunities.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Administrative or Executive Assistant
- Customer Service Representative
- General Manager
- Nonprofit Program Manager

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 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

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GENERAL STUDIES: ARTS AND HUMANITIES (AA.GAH)

ASSOCIATE OF ARTS

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

- foster the ability to articulate thoughts and opinions clearly to varied audiences via spoken, written, visual and other forms of communication.
- develop proficiency in a diverse array of educational outcomes, encompassing advanced reasoning skills, comprehensive general education, foundational skills, encompassing academic proficiency, critical thinking, global awareness and intercultural understanding.
- explore connections between different disciplines and demonstrate through oral and written academic work, knowledge of the arts and humanities.
- demonstrate the ability to analyze, conceptualize, evaluate, and synthesize creative and artistic expression within various contexts, including culture and disciplines.
- exemplify global citizenship through their understanding of civic engagement, ethical decision making, meaningful interactions with diverse cultures and individuals, and social justice advocacy.

REC	QUIRED MAJOR COURSES		
For	For the 18 units required, select courses from at least two disciplines; from one of the disciplines select at least two		
cour	ses. Students can double count General Education courses with the area of emphasis.		
	American Sign Language: ASL 1, 2, 3		
	Anthropology: ANT 2, 20		
	Art: ART 1A, 1B, 3, 10, 12A, 15A, 15B, 19, 70, 72, 80		
	English: ENG 1B, 17, 22, 24, 26, 31, 41, 44A, 44B, 46A, 46B, 47A, 47B, 48		
	Ethnic Studies: ETH 6, 7, 12, 56		
	History: HIS 4A, 4B, 5A, 5B, 6, 10, 17A, 17B, 40, 47, 49A, 49B, 55		
	Music: MUS 1A, 2, 5, 6, 7, 8, 20, 21, 25, 26, 42, 43, 46, 47, 48, 49		
	Philosophy: PHL 2, 5, 10		
	Photography: PHO 1, 2, 4		
	Spanish: SPA 1, 1S, 1X, 2, 2S, 2X, 3, 3S, 4, 4S		
	Theatre and Cinema: TAC 1, 2, 3, 7, 18, 20, 21, 23, 24, 25, 26, 29, 40, 50, 53, 92		

Subtotal: 18 units

Students must complete the Hartnell College General Education Pattern (See page 76):	HCCD GE 23 units
For the 18 units required, select courses from at least two disciplines; from one of the disciplines select at least two courses. Students can double count General Education courses with the area of emphasis.	18 units
Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.	19 units
TOTAL:	60 units

GENERAL STUDIES: SOCIAL AND BEHAVIORAL SCIENCES

PROGRAMS

Associate of Arts (A.A.)

SOCIAL SCIENCES

DESCRIPTION

The General Studies program with emphasis in Social and Behavioral Sciences offers students the opportunity to cultivate a comprehensive understanding of concepts, theories, and 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 dynamics of 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 social structures present in other human societies. Course choices include history, anthropology, psychology, sociology, political science, ethnic studies and more.

By engaging in careful educational planning with a counselor, this degree is for students seeking to explore various disciplines in the Social Sciences before committing to a specific major for transfer to a four-year university. This program is designed for students with specific majors that currently lack predefined pathways. It is particularly suitable for those who do not have the option of pursuing an Associate Degree for Transfer (ADT). Alternatively, it accommodates students who may not have transfer plans but desire to obtain a degree in an area of personal interest or enter the workforce with a diverse skill set while also paving the way for career advancement opportunities.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Administrative or Executive Assistant
- Customer Service Representative
- General Manager
- Nonprofit Program Manager

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 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

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GENERAL STUDIES: SOCIAL AND BEHAVIORAL SCIENCES (AA.GSB)

ASSOCIATE OF ARTS

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

- foster the ability to articulate thoughts and opinions clearly to varied audiences via spoken, written, visual and other forms of communication.
- develop proficiency in a diverse array of educational outcomes, encompassing advanced reasoning skills, comprehensive general education, foundational skills, academic proficiency, critical thinking, global awareness and intercultural understanding.
- explore connections between different disciplines and demonstrate through oral and written academic work, knowledge of the social and behavioral sciences.
- exemplify global citizenship through their understanding of civic engagement, ethical decision making, meaningful interactions with diverse cultures and individuals, and social justice advocacy.

REQUIRED MAJOR COURSES		
For the 18 units required, select courses from at least two disciplines; from one of the disciplines select at least two courses. Students can double count General Education courses with the area of emphasis.		
	Addiction Studies: AOD 1	
	Administrative Justice: ADJ 1, 3, 51	
	Agriculture: ABT 53	
	Anthropology: ANT 1, 2, 10, 20	
	Business: BUS 32	
	Communication Studies: COM 4	
	Early Childhood Education: ECE 2, 6, 53	
	Economics: ECO 1, 5, 10	
	Education: EDU 1	
	Ethnic Studies: ETH 1, 2, 3, 4, 5, 6, 7, 8, 12, 13, 21, 56	
	Geography: GEG 1, 10	
	Health Education: HED 2, 7	
	Health Science: HES 1, 2	
	History: HIS 4A, 4B, 5A, 5B, 6, 10, 17A, 17B, 40, 46A, 46B, 47, 49A, 49B, 55	
	Nursing: NRN/NVN 70	
	Philosophy: PHL 2, 5, 10, 15	
	Physical Education Theory: PETH 5	
	Political Science: POL 1, 2, 3, 5, 6	
	Psychology: PSY 2, 6, 9, 10, 12, 14, 15, 22, 25, 33, 41, 42	
	Social Justice Studies: SJS 20, 21, 22	
	Sociology: SOC 1, 5, 8, 15, 20, 30, 41, 42	
	Theatre & Cinema: TAC 7, 23	
	SUE	STOTAL: 18 UNITS
Stud	lents must complete the Hartnell College General Education Pattern (See page 76):	HCCD GE
		23 Units
	the 18 units required, select courses from at least two disciplines; from one of the disciplines	18 units
	ct at least two courses. Students can double count General Education courses with the area of hasis.	
emp	ilidala.	
Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60. 19 un		19 units
	TOTAL:	60 units

PROGRAMS

Associate of Arts (A.A.)

DESCRIPTION

The General Studies program with an emphasis in STEM allows students to develop knowledge of scientific theories, concepts, and data about both living and non-living systems. The program emphasizes the natural sciences, which examine the physical universe, its life forms, and its natural phenomena. In addition, this emphasis will explore experimental methodology, testing 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 STEM field before committing to a specific major for transfer to a four-year university. This program is designed for students with specific majors that currently lack predefined pathways. It is particularly suitable for those who do not have the option of pursuing an Associate Degree for Transfer (ADT). Alternatively, it accommodates students who may not have transfer plans but desire to obtain a degree in an area of personal interest or enter the workforce with a diverse skill set while also paving the way for career advancement opportunities.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Administrative or Executive Assistant
- Customer Service Representative
- General Manager
- Nonprofit Program Manager



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 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

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GENERAL STUDIES: STEM (AA.GSTEM)

ASSOCIATE OF ARTS

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

- foster the ability to articulate thoughts and opinions clearly to varied audiences via spoken, written, visual and other forms of communication.
- develop proficiency in a diverse array of educational outcomes, encompassing advanced reasoning skills, comprehensive general education, foundational skills and mathematical proficiency.
- explore connections between different disciplines and demonstrate through oral and written academic work, knowledge of the stem field.
- utilize quantitative and logical reasoning to analyze information, evaluate ideas, and solve problems, demonstrating a strong foundation in analytical thinking.
- employ analytical, and critical thinking skills to assess concepts, anticipate results, and devise conclusions and solutions.

For a total of 18 units complete courses from List A and List B.

Students can double count General Education courses with the area of emphasis.

REQUIRED MAJOR COURSES LIST A: Complete a minimum of 3 units from the following.		
Math: MAT 2, 3A, 13, 24, 25, 27	3-6 units	

Subtotal of List A: 3-6 units

Complete the remaining units from List B to complete a total of 18 units.

Required Major Courses List B: Complete **12-15 units**. Select courses from at least two disciplines. Students may choose from courses in List A that have not already been counted.

REC	QUIRED MAJOR COURSES LIST B: Complete 12-15 units.
	Agriculture: ABT 90, 92
	Anthropology: ANT 1
	Astronomy: AST 1, 1L
	Biology: BIO 1, 2, 3, 5, 6, 6L, 10, 11, 12, 18, 20, 27, 30, 42, 47, 48, 48L
	Chemistry: CHM 1A, 1B, 12A, 12B, 22, 23, 60
	Geography: GEG 1
	Geology: GEL 1, 2, 6, 25
	Math : MAT 2, 3A, 3B, 3C, 4, 5, 7, 13, 24, 25, 27
	Meteorology: MET 1
	Oceanography: OCN 1
	Physics: PHY 2A, 2B, 4A, 4B, 4C, 10, 32

Subtotal of List B: 12-15 units

Total Major Units: 18

Students must complete the following General Education Plan (See page 76):	HCCD GE 23 units
For a total of 18 units complete courses from List A and List B. List A: 3-6 units List B: 12-15 units	18 units
Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.	16-19 units
TOTAL:	60 units

PROGRAM

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 dynamic Earth system; describe the evidence for and occurrence of major events in Earth History. Most common career opportunities with a baccalaureate degree include: entry-level field technician/geologist in industry (mining, oil, environmental consulting) and governmental 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 requirements for geology for all CSU 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:

- Aerial/Scientific Photographer •
- Agricultural Engineer
- Architect
- Computer Analyst
- **Economic Geologist**
- **Environmental Lawyer**
- Forest Ranger

Hydrologist

- Geochemist
- Geologist

- Laboratory Technician
- Landscape Manager
- Marine Advisor
- Mathematician
- Soil Scientist
- Surveyor
- **Pollution Control** Specialist

TRANSFER PREPARATION

Courses that fulfill 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.

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- apply the scientific method to knowledge acquisition and transfer of information.
- demonstrate proficiency in the areas of graphical presentation, oral communication, and scientific writing.
- examine the various earth system components and their complex interaction through inquiry-based interdisciplinary curricula in the physical sciences.
- use observing systems, geospatial technology, computers, information processing and data analysis.
- explain the significance of geological resources and their economic and sustainable value for long-term habitation of the planet by humans.

Required Major Courses (26 units)

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

SUBTOTAL: 26 UNITS

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.

HIGH SCHOOL EQUIVALENCY

PROGRAM

Certificate of Competency



FOR MORE INFORMATION

CALL (831) 770-7070

DESCRIPTION

The Certificate of Competency in High School Equivalency Preparation is awarded upon the successful completion of the High School Equivalency (HSE) preparation courses: HSE 640, 650, and 660 (or HSE 640S, 650S and 660S). This noncredit program is intended for individuals who are preparing to attempt the state of California approved High School Equivalency exams (GED or HiSET). This certificate also prepares students to achieve academic, career, and lifelong learning goals, including preparing to succeed in college level work.

PROGRAM GOALS AND OBJECTIVES:

This noncredit program will provide students without a High School Diploma or its equivalent, the necessary skills to prepare for taking and passing the GED or HiSET equivalency exams and earning a California Certificate of High School Equivalency. Students will gain academic skills including: reading comprehension, critical thinking, basic composition including writing and editing a coherent text, inferences and interpretation, arithmetic, prealgebra, algebra and basic trigonometry skills. Students will also be able to apply those skills to the subject area tests for the GED or HiSET examinations. The program-level learning outcome for these courses is the preparation and successful completion of a high school equivalency by taking the GED/HiSET examinations, and acquiring skills necessary for continuing a student's career or academic goals. These are no-cost courses, however, students will pay for High School Equivalency (GED or HiSET) examinations. This certificate is a zero-cost textbook program. Program Objective: Upon successful completion of this program a student will be able to: Apply the academic skills necessary for continuing career or academic goals by preparing for and successfully completing a high school equivalency examination

*There is a \$10 Student Activities fee. However, there are no tuition fees because noncredit courses do not earn units/credits.

REQUIRED COURSES

HSE 640 or HSE-640s—High School Equivalency HISET/GED Level 1
HSE-650 or HSE-650S –High School Equivalency HISET/GED Level 2
HSE-660 or HSE-660S - High School Equivalency HISET/GED Level 3

HISTORY

PROGRAM

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, ideas, 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 than it is to simply to memorize historical data. Through the study of 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:

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

<u>!</u>

Regulatory Affairs

- Manager
- Research
- Teacher
- Writer/Author
- Urban Planner

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.

ASSOCIATE IN ARTS FOR TRANSFER

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

- demonstrate an understanding of the processes, peoples and events in the multicultural histories of the United States
- apply critical thinking skills in reading, comprehending, and interpreting historical scholarship.
- employ historical research methods to address historical questions using primary and secondary sources

Required Major Courses (6 units)		
HIS-17A – United State History A	3.0	
HIS-17B – United State History B	3.0	
Major Electives A (Complete 6 units)		
HIS-4A – Western Civilization A OR	3.0	
HIS-5A – World History A	3.0	
☐ HIS-4B – Western Civilization B OR	3.0	
HIS-5B – World History B	3.0	
Major Electives B (Complete 6 units)		
HIS-5A – World History A (if not used in List A)	3.0	
OR		
HIS-5B – World History B (if not used in List A)	3.0	
HIS-6 – History Mexico	3.0	
HIS-10 – History of California	3.0	
☐ HIS-40 – History of Women in the United States	3.0	
HIS-46A – Race and Ethnicity in American History A	A 3.0	
☐ HIS-46B — Race and Ethnicity in American History E	3 3.0	
HIS-47 – Religions of the World	3.0	
HIS-49A – Chicano History A	3.0	
HIS-49B – Chicano History B	3.0	
HIS-55 – U.S. History through Film	3.0	
SUBTO	TAL: 18 UNITS	
General Education – Required Courses		
Students must complete one of the following General Education Plans:		
CSU-GE (see page 78) 39 uni	ts	
IGETC (see page 80) 37 uni		
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.



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.

TOTAL: 60 UNITS

KINESIOLOGY

PROGRAMS

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

HEALTH SCIENCES

DESCRIPTION

The Physical Education, Kinesiology, Health, and Athletics department provides formal educational opportunities for the development and acquisition of motor skills, improved physical fitness and their application to sports and physical activities. This Associate of Science Degree covers a broad knowledge base that represents several disciplines that include traditional physical education, exercise science, athletic training, coaching, and health science. These courses help prepare students to transfer as Physical Education and Kinesiology majors to four-year institutions.

The Physical Education and Kinesiology program offers an AA-T degree (Associate in Arts for transfer in Kinesiology). The AA-T provides a clearly articulated curriculum for students who wish to transfer to baccalaureate degree programs at California State University (CSU) campuses.

The department also offers the AS degree (Associate of Science in Kinesiology). This degree is ideal for student-athletes and students transferring out of state or to private institutions.

Baccalaureate programs in Physical Education and Kinesiology include a wide array of specialties including but not limited to: coaching, education, athletic training, industry wellness centers and allied medical fields (Physical Therapy, Occupational Therapy, etc.). The preparation for different specialties will vary. For detailed requirements for individual programs at four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Athletic Trainer
- Exercise Physiologist
- Exercise Specialist
- Health Consultant
- Massage Therapist
- Nutritionist/Registered Dietitian
- Occupational Therapist
- Personal Trainer

- Physical Education Teacher
- Physical Therapist
- Recreation Director
- Sports Coach
- Sports Physiologist

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

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ASSOCIATE IN ARTS FOR TRANSFER

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

- demonstrate competence in performing a variety of skill-related behaviors.
- describe health and physical activity concepts that will enable him or her to make informed decisions concerning health.
- recognize health issues, understand the similarities and contrasts among cultures.
- demonstrate sensitivity to cultural and physical diversity.
- explain the value and significance of physical activity for human development, human interaction and quality of life and its relationship to their particular disability.

Required Major Courses (12 units) ☐ BIO-5 – Human Anatomy 4.0 BIO-6 – Introductory Physiology 3.0 ☐ BIO-6L – Physiology Lab 2.0 PETH-1 – Introduction to Kinesiology 3.0 **Major Movement Courses: Select 3 courses from** any (3) of the following areas for a Minimum of 3 units. AQUATICS – PEAC-42, 44, 61, 68 1.5 COMBATIVES – PEAC-56 2.0 0.5-2.0 FITNESS – PEAC-32, 36, 40, 43, 46, 47, 49, 50, 51,66, 69 INDIVIDUAL SPORTS – PEAC-58, 59, 64 1.0-1.5 TEAM SPORT – PEAC-41, 52, 55, 70,72 1.5 Major Electives (Complete 7-8 units) MAT-13 – Elementary Statistics 4.0 CHM-1A – General Chemistry 5.0 HED-55 – Health Education – Advanced First Aid 3.0 PHY-2A – College Physics I 4.0 OR PHY-4A - General Physics/Mechanics I 4.0

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.



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.

TOTAL: 60 UNITS

SUBTOTAL: 22-23 UNITS

KINESIOLOGY (AS.KIN)

ASSOCIATE OF SCIENCE

Program Outcomes: Upon successful completion of this program a student will be able to: demonstrate competence in performing a variety of physical education activity related skills. describe health and physical activity concepts that will enable him or her to make informed decisions concerning demonstrate sensitivity to physical diversity, understand the similarities and contrasts among different cultures and recognize health issues. explain the value and significance of physical activity for human development, human interaction and quality of life and its relationship to their individual health. **Required Major Courses (16 units)** HED-6 – Multicultural Health Beliefs 3.0 NUTR-1 – Nutrition 3.0 PETH-1 – Introduction to Kinesiology 3.0 PETH-2 – Care and Prevention of Athletic Injuries 4.0 PSY-2 – General Psychology 3.0 Required Major Courses (Complete 4-5 units) ☐ BIO-5 – Human Anatomy 4.0 BIO-6 and BIO-6L – Introductory Physiology 5.0 BIO-11 – Introductory Human Anatomy and Physiology 4.0 **Required Major Courses (Complete 4 units)** CHM-22 – The Science of Chemistry 4.0 PHY-2A – College Physics I 4.0 PHY-10 – Introduction to Physics 4.0 Major Electives (Select a minimum of 6 units from at least 2 of the following activities) RACQUET ACTIVITIES (TENNIS) o PEAC - 58, 59 ☐ AQUATIC ACTIVITIES o PEAC - 42, 44, 61, 62, 63, 68 TEAM ACTIVITIES o PEAC - 27, 40, 41, 52, 55, 56, 70, 72, 74 o PEIN – 17, 19, 20, 21, 22, 23, 24, 25, 26 FITNESS ACTIVITIES o PEAC – 32, 36, 43, 46, 47, 49, 50, 51, 56, 66, 69 Major Electives (Complete 1 course 2-3 units) □ PETH – 3, 4, 5, 10A, 10B Recommended Major Electives (Select from list, none required.) *Required for AA-T KIN degree ** Required for athletic transfer participates *BIO-5, *BIO-6, *BIO-6L, **ENG-2, *HED-55, PETH-3, PETH-4 **SUBTOTAL: 32-34 UNITS General Education – Required Courses** Students must complete one of the following General Education Plans: **HCCD GE** (see page 76) ☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities Social and Behavioral Sciences Physical and Biological Sciences Ethnic Studies

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

Lifelong Learning and Self Development

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

SUBTOTAL: 23 UNITS

LAW, PUBLIC POLICY AND SOCIETY

PROGRAM

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



DESCRIPTION

The Associate in Arts degree in Law, Public Policy and Society prepares students for law school upon completion of a bachelor's degree. The interdisciplinary approach emphasizes the development of communication skills, introduces students to the legal field, and prepares students for further study in a variety of majors. Students who opt to pursue this course of study are encouraged to engage in further exploration of one or more specific majors as they select electives for degree completion.

The Associate in Arts degree in Law, Public Policy and Society 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 in a variety of areas. For detailed requirements for individual four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements for their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Banking
- Corporate Legal Departments
- Law Offices
- Government
- Finance
- Insurance

- Other Legal Service Providers
- Politics
- Real Estate

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

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LAW, PUBLIC POLICY AND SOCIETY (AAT.LAW)

ASSOCIATE IN ARTS FOR TRANSFER

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

- recognize the relationship among race, racism, imperialism, white supremacy, colonialism, and the U.S. legal system.
- evaluate the relationship between the U.S. Constitution and the institution of slavery.
- examine the role the legal system has played in the construction of race.
- illustrate how economics, philosophy, logic, education, ethnology, anthropology, politics, sociology, history, and culture molds U.S. law and legal reasoning.
- apply analytic and conceptual tools to critically assess numerous practice areas of law, including, but not limited to the following: civil rights, criminal defense, immigration, education, and human rights. Furthermore, students will be able to demonstrate how these particular areas have historically informed and shaped their local communities.
- demonstrate a systematic understanding of the racial and legal history of people of color in the United States, including, but not limited to analyzing the following issues: naturalization and citizenship, cultural stereotypes and hate speech, history of slavery in America, the workplace and farm labor, land grants, treaty and policy making, and the hyper-masculinity and criminalization of Black and Brown males.

Required Major Courses (22-23 units) PHL-10 – Introduction to Ethics 3.0 COM-1 - Introduction to Public Speaking 3.0 COM-2 - Argumentation or Debate 3.0 ☐ ENG-1A – College Composition and Reading 3.0 ENG-1AX - Intensive College Composition and Reading 4.0 ENG-2 - Critical Thinking and Writing 3.0 MAT-13 - Introduction to Statistics 4.0 HIS-17A – United States History A 3.0 HIS-17B - United States History B 3.0 POL-1 – American Political Institutions 3.0 Major Electives (Complete 2 courses from 2 of the areas listed below - 6 units) Administration of Justice ADJ-3 – Concepts of Criminal Law 3.0 ADJ-4 - Criminal Evidence 3.0 ADJ-5 - Criminal Court Process 3.0 **Business** BUS-18 – Legal Environment of Business 3.0 **Economics** ☐ ECO-1 – Principles of Microeconomics 3.0 ECO-5 - Principles of Macroeconomics 3.0 **Public Policy** SJS-20 - Introduction to Social Justice 3.0 SOC-30 - Sociology of Latina/Latino in the US **College Success** COU-1 – Student Success Seminar 3.0 **Public Policy** ☐ LAW-42 – Law and Public Service 3.0 SUBTOTAL: 28-29 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.
- Obtainment 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.

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)

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

LIBERAL ARTS: PATHWAY TO HEALTH SCIENCES

PROGRAMS

Associate of Arts (A.A.)



DESCRIPTION

The Liberal Arts program with emphasis in Health Sciences provides general knowledge and career-relevant skills that prepare you for a range of professions and majors. Students completing this degree will have an introductory foundation and the necessary preparation to continue in one or more of the Health Sciences fields around the Salinas Valley and beyond. This program offers students a comprehensive and interdisciplinary degree designed to provide students with a well-rounded education from various disciplines, fostering critical thinking, creativity, communication and analytical skills. Students will acquire the ability to identify and understand the body structure, physiological functions, written communication, and interpersonal growth. This degree is designed to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes necessary for personal and professional success. Course choices include biology, chemistry, psychology, growth and development, nutrition and more.

By engaging in careful educational planning with a counselor, this degree is for students seeking to explore various disciplines with the Health Sciences before committing to a specific major for transfer to a four-year university. This program is designed for students with specific majors that currently lack predefined pathways. It is particularly suitable for those who do not have the option of pursuing an Associate Degree for Transfer (ADT). Alternatively, it accommodates students who may not have transfer plans but desire to obtain a degree in an area of personal interest or enter the workforce with a diverse skill set while also paving the way for career advancement opportunities.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Advertising Account Executive
- Archivist
- Business
- College Recruiter
- Customer Service Representatives
- Editor
- Grant Writer

- Journalist
- Museum Manager
- Policy Analyst
- Publicist
- Real Estate
- Speech Writer
- Teacher

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

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LIBERAL ARTS: PATHWAY TO HEALTH SCIENCES (AA.LPHS)

ASSOCIATE OF ARTS

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

- foster the ability to articulate thoughts and opinions clearly to varied audiences via spoken, written, visual and other forms of communication.
- develop proficiency in a diverse array of educational outcomes, encompassing advanced reasoning skills, comprehensive general education, foundational skills, encompassing academic proficiency, critical thinking, understanding of information literacy and intercultural understanding.
- explore connections between different disciplines and demonstrate knowledge of the health sciences through oral and written academic work.
- gain proficiency in foundational knowledge of human biology and physiology, efficiently access information, critically
 evaluate information, and ethically use information.

	a total of 18 units complete courses from List A, List B and List C. dents can double count General Education courses with the area of emphasis.	
Requi	ired Major Courses List A: Complete a minimum of 3 units from List A.	
	ogy: 1, 5, 6, 6L, 10, 11, 12, 18, 27, 42	3-4 units
L		Subtotal: 3-4 units
Requ	ired Major Courses List B: Complete a minimum of 4 units from List B.	
Che	mistry: 1A, 1B, 22, 23, 60	4 units
		Subtotal: 4 units
Con	pplete the remaining units from List C to complete a total of 18 units.	
•	ired Major Courses List C: Complete 10-11 units from List C.	
Stude	ents may choose from courses in list A and B that have not already been counted.	
	Anthropology: 1, 2	
	Biology: 1, 5, 6, 6L, 10, 11, 12, 18, 27, 42	
	Chemistry: 1A, 1B, 12A, 12B, 22, 23, 60	
	Early Childhood Education: 19	
	Health Education: 2, 6, 7, 8, 55	
	Health Science: 1, 2, 3, 80	
	Nutrition: 1, 51	
	Nursing: NRN 70, NVN 70	
	Physical Education Theory: 1, 2	
	Physics: 10	
	Psychology: 2, 25	
	Sociology: 1, 5,	

Choose the General Education pattern related to your educational goal:	CSU-GE (see page 78)	39 units
	IGETC (see page 80)	34-37 units
Complete the 18 required units For the 18 units required: Select 2 units from List A. Select 4 units from List B. and	List A	Select 3 units
For the 18 units required: Select 3 units from List A, Select 4 units from List B and Select 10-11 units from List C. Students can double count General Education courses	List B	Select 4 units
with area of emphasis.	List C	Select 10-11 units
Complete any elective necessary to total 60 transferable units required by the universities.		60 total units

MATHEMATICS

PROGRAM

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



DESCRIPTION

The Associate in Science in Mathematics for Transfer offers course work in all levels of mathematics from arithmetic through differential equations and linear algebra. Students seeking improvement in their basic mathematical skills and those desiring development of advanced mathematical methods can all find meaningful activities in the Associate in Science in Mathematics for Transfer. While there are job opportunities in pure mathematics, there are even more in applied mathematics, statistics, engineering, and other technical fields relying heavily on mathematics. Positions for which four-year graduates in mathematics are qualified can be found in the fields of business, computers, teaching, and research.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Actuary
- Applications Program Manager
- Commodity Manager
- Cost Estimator/Analyst
- Database Manager
- Estate Planner
- Financial Consultant
- Investment Banker
- Mathematician
- Network Programmer
- Research Analyst
- Statistician
- Teacher
- Technical Writer
- Weight Analyst

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

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ASSOCIATE IN SCIENCE FOR TRANSFER

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

- demonstrate proficiency in solving mathematical problems involving major concepts, theories, and principles including, but not limited to
 - applying derivatives and integrals
 - solving 2nd order differential equations
 - constructing basic mathematical proofs
- analyze data using appropriate technology to enhance mathematical understanding.

Required Major Courses (12 units) MAT-3A – Analytic Geometry and Calculus I 4.0 MAT-3B – Analytic Geometry and Calculus II 4.0 MAT-3C – Analytic Geometry and Calculus III 4.0 Major Electives A (Complete 3 units) MAT-4 – Linear Algebra 3.0 MAT-5 – Differential Equations 3.0 Major Electives B (Complete one additional 3-4 units) MAT-4 – Linear Algebra 3.0 MAT-5 – Differential Equations 3.0 MAT-7 – Discrete Mathematics 4.0 MAT-13 – Elementary Statistics 4.0 ☐ CSS-2A – Object Oriented Programming 4.0 PHY-4A – General Physics I/Mechanics 4.0 **SUBTOTAL: 18-19 UNITS**

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.

PROGRAMS

- Associate in Arts for Transfer (A.A.-T)
- Associate of Arts (A.A.)
- Certificate of Achievement



DESCRIPTION

The Music Program offers coursework and ensembles that embrace the diversity of our valley. Music is the universal language of the global village of the 21st 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 vocal 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 four-year 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 or instrumental performance, composition or arranging for 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 MUS-2 in the summer prior to starting their music degree. For detailed requirements for individual four-year 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 university music programs and to teach/perform music in non-credentialed, part-time employment situations. Musical skills needed for students to be successful in these situations include the singing and notation of diatonic melodies, ability to arrange and transpose parts for different instruments and vocal ranges, basic piano proficiency, and the ability to perform vocally or on a musical instrument, both alone and with an ensemble. Course offerings introduce the students to these skills. In addition, students acquire beginning technology skills that allow them to use computer technology to professionally notate and record music.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Arts and Education Administrator
- Composer
- Concert Hall Manager
- Conductor
- Disc Jokey
- Film Music Editor
- Music Director

- Music Journalist
- Music Promoter
- Music Therapist Teacher
- Private Studio Instructor
- Vocal or Instrumental Performer
- Sound Engineer

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

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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.

ASSOCIATE IN ARTS FOR TRANSFER

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

- analyze the harmonic structure of music from the Common Practice Period.
- sight-sing intermediate level tonal melodies.

MUS-11 – Applied Music-Instrumental

- demonstrate piano proficiency at the lower-intermediate level.
- perform individually on an instrument or with the voice, and collaboratively in an instrumental or vocal ensemble.
- aurally identify the genre and stylistic period of examples from the western art music tradition.
- utilize computer applications for audio recording and notation.

Required Major Courses (18 units)

		_
	(MUS-11 Course must be taken four times)	
OR	MUS-10 – Applied Music	
		2.0
	(MUS-10 Course must be taken two times)	
	MUS-46 – Music Theory and Musicianship I	4.0
	MUS-47 – Music Theory and Musicianship II	4.0
	MUS-48 – Music Theory and Musicianship II	1 4.0
	MUS-49 – Music Theory and Musicianship I	V 4.0
Require	ed Major Courses—Ensemble (Complete 4 u	nits)
	MUS-20 – Hartnell College Choir	1.0
	MUS-21 – Hartnell Chamber Singers	1.0
	MUS-25 – Hartnell College Wind Ensemble	1.0
	MUS-26 – Jazz Ensemble	1.0
	MUS-37 – Hartnell Orchestra	1.0
		SUBTOTAL: 22 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

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

2.0



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.

MUSIC (AA.MUS)

ASSOCIATE OF ARTS

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

- analyze the harmonic structure of music from the Common Practice Period.
- sight-sing intermediate level tonal melodies.
- demonstrate piano proficiency at the lower-intermediate level.
- perform individually on an instrument or with the voice, and collaboratively in an instrumental or vocal ensemble.
- aurally identify the genre and stylistic period of examples from the western art music tradition.
- utilize computer applications for audio recording and notation.

Require	d Major Courses (31.5 units)		
	MUS-1A – Music Appreciation – Historical	3.0	
	MUS-2 – Music Fundamentals	3.0	
	MUS-10 – Applied Music Voice	2.0	
	(MUS-10 course must be taken two times)		
	OR		
	MUS-11 – Applied Music-Instrumental	2.0	
	(MUS-11 Course must be taken four times)		
	MUS-13A – Beginning Piano I	1.5	
	MUS-13B – Beginning Piano II	1.0	
	MUS-14 – Intermediate Piano	1.0	
	MUS-15 – Advanced Piano	1.0	
	MUS-42 – Electronic Music	3.0	
	MUS-46 – Music Theory and Musicianship I	4.0	
	MUS-47 – Music Theory and Musicianship II	4.0	
	MUS-48 – Music Theory and Musicianship III	4.0	
	MUS-49 – Music Theory and Musicianship IV	4.0	
Major E	lectives—Ensemble (Complete 4 units)		
-	MUS-20 – Hartnell College Choir	1.0	
	MUS-21 – Hartnell Chamber Singers	1.0	
	MUS-25 – College Wind Ensemble	1.0	
	MUS-26 – Jazz Ensemble	1.0	
	MUS-36 – Jazz Combo	1.0	
	MUS-37 – Hartnell Orchestra	1.0	
			SUBTOTAL: 35.5 UNITS
Genera	Education – Required Courses		
	must complete one of the following General Education Plai	ns:	
	D GE (see page 76)		
	☐ English composition ☐ Oral communication and Crit	cical thinking	
	Mathematical Concepts and Quantitative Reasoning		
	Arts and Humanities		
	Social and Behavioral Sciences		
	Physical and Biological Sciences		
	Ethnic Studies		
	Lifelong Learning and Self Development		CURTOTAL 22 UNITS
			SUBTOTAL: 23 UNITS

TOTAL: 60 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.

MUSIC (CT.MUS)

CERTIFICATE OF ACHIEVEMENT

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

- sight-sing and notate diatonic melodies.
- demonstrate piano proficiency at the beginning level.
- perform individually on an instrument or with the voice, and collaboratively in an instrumental or vocal ensemble.
- arrange music for a variety of instruments and vocal ranges.
- aurally identify the genre and stylistic period of examples from the western and world art music traditions.
- utilize computer applications for audio recording or notation.

Required Major Courses (14.5 units)

	MUS-2, Music Fundamentals	3.0
	MUS-46, Music Theory and Musicianship I	4.0
	MUS-47, Music Theory and Musicianship II	4.0
	MUS-13A, Beginning Piano I	1.5
	MUS-13B, Beginning Piano II	
	OR	
	MUS-17A, Beginning Guitar I	1.0
	MUS-10, Applied Music Voice	
	OR	
	MUS-11 Applied Musical Instrumental (2 semester)	1.0
One of	the Following Courses (3 units)	
	MUS-1A, Music appreciation- Historical Perspective	3.0
	MUS-5, Ethnic Musics in the United States I	3.0
	MUS-6, Hawaiian Music	3.0
	MUS-7, Jazz Appreciation	3.0
	MUS-8, American Popular Music	3.0
	MUS-42, Electronic Music-History and Composition	3.0
2 Seme	sters of any of the following Courses (2 units)	
	MUS-20, Hartnell College Choir	1.0
	MUS-21, Hartnell Chambers Singers	1.0
	MUS-25, Hartnell College Wind Ensemble	1.0
	MUS-26, Jazz Ensemble	1.0
	MUS-37, Hartnell Orchestra	1.0

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

TOTAL: 19.5 UNITS

NURSING—REGISTERED NURSING

PROGRAM

Associate of Science (A.S.)



DESCRIPTION

The Hartnell College Associate Degree in Nursing (ADN) is a defined group of pre-requisite and co-requisite courses that prepares students to become registered nurses. The four-semester course of study consists of classroom, high-fidelity simulation, nursing skills laboratory, seminar, interprofessional, and clinical experiences. 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 (NCLEX-RN). After passing the licensure examination, graduates may practice as registered nurses in a variety of acute and communitybased settings. Graduates demonstrate the leadership and comportment required for a professional nurse committed to competence, caring, collaboration, 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 (ACEN).

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Certified Nurse Midwife
- Critical Care Nurse
- ER Nurse
- Health Care Administrator
- Health Educator
- Mental Health Nurse
- Missionary Nurse
- Nurse Administrator
- Nurse Practitioner
- Patient Educator
- Pediatric Nurse
- Public Health Nurse
- Registered Nurse
- Surgical Nurse

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.

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 four-year 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 http://nursing.csumb.edu/. Students transferring from other nursing programs seeking placement into the second, third, or fourth semesters of the Associate Degree in Nursing Program should contact the Dean of Academic Affairs: Nursing and Health Sciences (831.770.6146). Academic counselors evaluate transfer student transcripts for coursework equivalency. Syllabi, course outlines, and catalogs may be requested for the evaluation.

ACCEPTANCE TO THE NURSING (RN) PROGRAM

The Associate Degree in Nursing (ADN) requires separate application and screening procedures that must be completed independently from Hartnell College admission. Acceptance is subject to an annual application process. Because the RN program is impacted, completion of program prerequisites does not guarantee admission. Information can be obtained from the website (https://www.hartnell.edu/NHS), the Nursing and Health Sciences office (831.770.6146), or the Hartnell College Nursing and Health Sciences Program academic counselor (831.755.6820). Application forms for the RN Program and informational materials are available on the Hartnell College Nursing and Health Sciences web page (https://www.hartnell.edu/NHS) Application forms are available in November of each year for the following Fall semester admission. Completed application forms and required documents must be submitted by the deadline date listed on the application. Students who are conditionally accepted for entry into the ADN program are required to attend a mandatory orientation. At the orientation, admission packets with health, drug, live scan, and background screenings are distributed.

Minimum Requirements for Admissions Eligibility:

- Completion of all prerequisite courses with a minimum of a "C" grade as documented on official transcripts. In-progress courses will not be accepted for admission GPA purposes. Science GPA Requirement: 2.5
- 2. Success in the Associate Degree in Nursing program is based on theoretical knowledge, nursing skills competency, clinical reasoning, professional behaviors, and their application in the clinical setting. To progress students must achieve at least "C" grades in all nursing courses.

Counselor - 831.755.6820

Nursing and Health Science office – 831.770.6146

Email - NHS@hartnell.edu

NURSING—REGISTERED NURSING (AS.NRN)

ASSOCIATE OF SCIENCE

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

- incorporate leadership, management, and legal-ethical principles to guide practice as a professional nurse.
- apply increasingly complex nursing judgement and theoretical concepts when providing safe nursing care to diverse individuals across the lifespan in a variety of settings.
- integrate caring into relationships and nursing interventions that positively influence health outcomes and demonstrate sensitivity to the values of others.
- communicate and collaborate with members of the interprofessional healthcare team to coordinate care and optimize health outcomes.
- model a spirit of inquiry when examining data, challenging 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 ACCEPTANCE INTO THE PR			RAM (24 units)
		BIO-5 – Human Anatomy	4.0
		BIO-6 – Introductory Physiology	3.0
		BIO-6L – Physiology Laboratory	2.0
		BIO-27 – Principles of Microbiology	4.0
		CHM-22 – The Science of Chemistry	4.0
		ENG-1A – College Composition and Reading	3.0
		OR	
		ENG-1AX – Intensive College Composition and Reading	
		MAT-13 — Elementary Statistics (Recommended for Students pursuing BS	5N)4.0
		ed General Education Courses: E TAKEN CONCURRENTLY WITH NRN COURSES (15 units	·)
		PSY-25 – Developmental Psychology - Lifespan OR	3.0
		NRN-70 – Growth and Development Across the Life Spa	n for the Healthcare Professional
		ANT-2 – Introduction to Cultural Anthropology	3.0
		AND	
		SOC-1 – Introduction to Sociology	3.0
		Ethnic Group Course (see page 76) (ETH 1,	2, 3, 4, 7, 8, 13, 21, 56)
		COM-1 – Introduction of Public Speaking	3.0
		OR	
		COM-3 – Survey of Human Communication	3.0

CON'T OF NURSING—REGISTERED NURSING

Required Major Courses (After Acceptance into the program) (39.5 units) 1st SEMESTER – 11.5 units			
NRN-110 – Foundations for Success for Registered Nurs	sing Students	1.0	
NRN-46 – Health Promotion and Foundational Health Concepts Across the Lifespan			
☐ NRN-47 – Social Determinants of health		1.5	
☐ NRN-48 – Nursing Assessment and Interventions		1.0	
☐ NRN-49 – Introduction to Pharmacology and Medicatio	n Administration	1.5	
2 nd SEMESTER – 9 units			
NRN-56 – Care of Diverse Individuals and Families with	Stable Conditions	8.0	
NRN-57 – Nursing Interventions and Scenarios		0.5	
NRN-58 – Application of Pharmacology for Nursing Practice	ctice Across the Lifespan	0.5	
3 rd SEMESTER – 8 units			
☐ NRN-66 – Care of Clients with Complex Physiological ar	nd Psychological Conditions	8.0	
4 th SEMESTER – 8 units			
NRN-76 – Care of Clients with Potential or Actual Multi	-system Failure	7.0	
☐ NRN-77 — Role Transition and Care Coordination Seminar		1.0	
Nursing and Health Sciences Electives: (recommended, not re	quired)		
NRN-50.41 – Supervised Nursing Skills Practice I	0.5		
☐ NRN-50.42 – Supervised Nursing Skills Practice II	0.5		
☐ NRN-50.43 – Supervised Nursing Skills Practice III	0.5		
□ NRN-50.44 – Supervised Nursing Skills Practice IV	0.5		
NRN-225 – Success Strategies for 1st Semester RN Students	0.5		
NRN-226 – Success Strategies for 2 nd Semester RN Students	0.5		
NRN-227 – Success Strategies for 3 rd Semester RN Students	0.5		
NRN-228 – Success Strategies for 4 th Semester RN Students	0.5		
BIO-18 – Introduction to Pathophysiology	3.0		
HES-1 – Introduction to Public Health	3.0		
HES-2 – Health and Social Justice	3.0		
HES-3 – Drugs, Health, and Society	3.0		
HES-80 – Medical Terminology	3.0		
LIB-6 – Information Competency in the Social Sciences	1.0		
NUTR-1 – Nutrition	3.0		
	SUBTOTAL:	AQ 5 HNITS	
	JUDIUIAL:	CIINIO C.OF	

TOTAL: 60 UNITS

NURSING—VOCATIONAL NURSING

PROGRAM

- Associate of Science
- Certificate of Achievement



DESCRIPTION

The Hartnell College Vocational Nursing (VN) Program is a defined group of prerequisite, general education, and required major courses in a 24-month program of study consisting of classroom, high-fidelity simulation, nursing skills laboratory, and clinical experiences. Licensed vocational nurses perform essential nursing services under the supervision of a registered nurse or physician. Upon successful completion of program requirements, graduates are eligible to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN). After passing, graduates may practice as vocational nurses in a variety of settings, including but not limited to community agencies, medical offices, hospitals, and long-term care facilities. The Hartnell College VN Program is fully approved by the California Board of Vocational Nurses and Psychiatric Technicians (BVNPT) and is the first vocational nursing program in California to earn national accreditation from the Accreditation Commission for Education in Nursing.

GAINFUL EMPLOYMENT INFORMATION:

See the certificate program cost and the employment outlook for graduates by clicking the link below:

https://www.hartnell.edu/acad emics-affairs/gecp/

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

LEADS TO CAREER OPPORTUNITIES SUCH AS

- Home Health Care Provider
- Nursing Technician
- Nursing Assistant and Orderly
- Occupational Therapy Assistant/Aide
- Physical Therapy Aide
- Registered Nurse

ACCEPTANCE TO THE VOCATIONAL NURSING PROGRAM

The VN Program requires application and screening procedures that are in addition to admission processes for Hartnell College. Because the VN program is impacted, completion of program prerequisites does not guarantee admission. Information can be obtained from the website (http://www.hartnell.edu/NHS), the Nursing and Health Sciences office (831.770.6146) or the Hartnell College Nursing and Allied Health academic counselor (831.755.6820).

Application forms for the VN associate degree and certificate programs are available on the Hartnell College Nursing and Health Sciences web page (https://www.hartnell.edu/NHS). Application forms are available in September of each year for the following Spring semester admission. Application forms and requested documents must be submitted by the deadline date. Students accepted into the VN program are required to attend a mandatory orientation. At the orientation, admission packets with forms for health, drug, and background checks are distributed. Once admitted, the student commits to full-time study for three semesters. Students are responsible for costs related to classroom and clinical learning materials, travel to clinical sites, clinical nursing skills supplies, and standardized assessments.

Minimum Requirements for Admissions Eligibility:

- 1. Hartnell College enrollment or a Hartnell College Application for Admission on file in the Office of Admissions and Records
- 2. Completion of English 1A, Math 13, Psychology 2, and Biology 11 courses.
- 3. Completion of high school or equivalent: official high school transcript or equivalent is required. (Board of Vocational Nursing /Psychiatric Technician, Rules and Regulations, Article 5 Section 2530)

Admission is based on a lottery of those candidates who have completed an application, submitted it prior to the deadline, and meet minimal requirements. Persons not selected are encouraged to reapply. Success in the Vocational Nursing Program is based on the application of theoretical knowledge, clinical skill proficiency, and professional comportment in the clinical setting. To progress and graduate from the vocational nursing program, students must achieve at least "C" or "P" grades in all nursing courses.

FOR MORE INFORMATION, CONTACT: Hartnell College Nursing and Health Sciences: 831.770.6146

Hartnell College Counselor: 831.755.6820

Email: NHS@hartnell.edu

NURSING—VOCATIONAL NURSING (AS.NVN)

ASSOCIATE OF SCIENCE

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

- articulate the role of the vocational nurse as a member of the health care team, committed to provide safe, quality care for diverse persons and their families.
- provide rationale for judgments used in the provision of safe, quality care and for decisions that promote the health of persons.
- promote the human dignity, integrity, self-determination, and personal growth of persons, oneself, and members of the health care team.
- achieve quality care through effective communication, mutual respect, and shared decision making with the health care team.
- question the basis for nursing actions, considering research, evidence, tradition and personal preferences.

Required General Education Courses: MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO THE PROGRAM - 18-24 units ☐ ENG-1A – College Composition and Reading 3.0 ENG-1AX – Intensive College Composition and Reading 4.0 MAT-13 – Elementary Statistics 4.0 ☐ BIO-11* – Intro to Human Anatomy & Physiology 4.0 BIO-5* – Human Anatomy (4.0)BIO-6* – Introductory Physiology (3.0)**AND** BIO-6L – Physiology Lab (2.0)PSY-2* – General Psychology 3.0 ☐ LIB-6 – Information Competency in the Social Science 1.0 OR Communication and Analytic Thinking Course _____ (see page 68) 3.0 Ethnic Group Course (see page 76) 3.0 (Recommended: ENG-1A with a Multicultural Perspective) *Prerequisite and corequisite courses marked with an asterisk must be completed within five (5) years of entering the vocational nursing

^{*}Prerequisite and corequisite courses marked 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 Psychiatric Technicians of the State of California.

¹ Any AHA 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.

1 st SEMESTER – 16 units			
NUTR-51* – Essential of Nutrition	3.0		
OR			
NUTR-1 – Nutrition	(3.0)		
NVN-70* – Growth & Development Across the Lifespan	3.0		
OR			
PSY-25 – Developmental Psychology: Lifespan	(3.0)		
NVN-110 – Foundations for Success for VN Students	1.0		
NVN-119 – Vocational Nursing Theory I: Fundamentals	4.0		
NVN-119.1 – Vocational Nursing Clinical I: Fundamentals	4.0		
NVN-130A – Basic Pharmacology A	1.0		
2 nd SEMESTER – 14 units			
NVN-121 – Vocational Nursing Theory II	6.5		
NVN-121.1 – Vocational Nursing Clinical II	6.5		
NVN-130B – Basic Pharmacology B	1.0		
3 rd SEMESTER – 14 units			
NVN-123 – Vocational Nursing Theory II	6.5		
NVN-123.1 – Vocational Nursing Clinical III	6.5		
NVN-130C – Basic Pharmacology C	1.0		
*Prerequisite and corequisite courses marked 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 Psychiatric Technicians of the State of California. 1 Any AHA 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. Nursing and Health Sciences Electives: (recommended, not required)			
NVN-225 – Success Strategies for Vocational Nursing: Fund		0.5	
NVN-226 – Success Strategies for Vocational Nursing: Health Promotion 0.5			

NVN-227 – Success Strategies for Vocational Nursing: Care Coordination

NVN-210 – Intravenous Therapy and Blood Withdrawal Techniques

SUBTOTAL: 63-65.5 UNITS

0.5

2.0

NURSING—VOCATIONAL NURSING (CT.NVN)

CERTIFICATE OF ACHIEVEMENT

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

- articulate the role of the vocational nurse as a member of the health care team, committed to provide safe, quality care for diverse persons and their families.
- provide rationale for judgments used in the provision of safe, quality care and for decisions that promote the health of persons.
- promote the human dignity, integrity, self-determination, and personal growth of persons, oneself, and members of the health care team.
- achieve quality care through effective communication, mutual respect, and shared decision making with the health care team.
- question the basis for nursing actions, considering research, evidence, tradition and personal preferences.

Required General Education Courses:

MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO THE PROGRAM - 15-21 units

ENG-1A – College Composition and ReadingOR	3.0
ENG-1AX – Intensive College Composition and Reading	(4.0)
	4.0
☐ HES-120¹ — AHS Basic Life Support for HCP	(0.5)
☐ 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. <u>0)</u>
DCV 2* Constal Developer	2.0
PSY-2* – General Psychology	3.0
1 st SEMESTER – 16 units	3.0
_	3.0
1 st SEMESTER – 16 units	
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition	
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR	3.0
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR NUTR-1 – Nutrition	3.0 (3.0)
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR NUTR-1 – Nutrition NRN/NVN-70* – Growth & Development. Across the Lifespan	3.0 (3.0)
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR NUTR-1 – Nutrition NRN/NVN-70* – Growth & Development. Across the Lifespan OR	3.0 (3.0) 3.0
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR NUTR-1 – Nutrition NRN/NVN-70* – Growth & Development. Across the Lifespan OR PSY-25 – Developmental Psychology: Lifespan	3.0 (3.0) 3.0 (3.0)
1st SEMESTER – 16 units NUTR-51* – Essential of Nutrition OR NUTR-1 – Nutrition NRN/NVN-70* – Growth & Development. Across the Lifespan OR PSY-25 – Developmental Psychology: Lifespan NVN-110 – Foundations for Success for VN Students	3.0 (3.0) 3.0 (3.0) 1.0

CON'T OF NURSING—VOCATIONAL NURSING

NVN-225 – Success Strategies for Vocational Nursing: Fundamentals 0.5		
notion 0.5		
nation 0.5		
s 2.0		
r		

^{*}Prerequisite and corequisite courses marked 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 Psychiatric Technicians of the State of California.

TOTAL: 57-65 UNITS

¹ Any AHA 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

- Associate of Arts (A.A.)
- Certificate of Achievement



Photography is an omnipresent, integral part of life in the 21st Century. It is the basis of visual media such as filmmaking, video, and digital imaging. The study of photography involves both the development of a technical, skill-based knowledge, as well as an appreciation for how the medium has changed and continues to shape the values, the cultures and the lives of everyone globally.

Photography is more than a means to make a visual record; it has also become a tool of change; a form of art; a means of learning, and a platform for communicating ideas.

The photography faculty is committed to empowering students with the ability to apply photo imaging to their lives for practical, professional, and artistic purposes. Hartnell photo instruction prepares students to achieve personal enrichment and development, to acquire abilities needed to produce photographic art of high aesthetic value, and to develop or hone professional skills. Additional general education courses will prepare students for advancement to college and university study. Photography offers careers in the following areas: advertising; photographic art; fashion photography; commercial portrait; digital effects; photojournalism; editorial, wedding, and special event photography; industrial photography; travel, adventure, and pet photography; scientific photography; forensic photography; and documentary photography.

For detailed requirements for individual four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Advertising
- Commercial Portrait
- Digital Effects
- Editorial, Wedding & Special Event Photography
- Fashion Photography
- Forensic Photography
- Industrial Photography
- Photo Journalism
- Photographic Art
- Scientific Photography
- Travel, Adventure & Pet Photography



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.

PHOTOGRAPHY (AA.PHO)

ASSOCIATE OF ARTS

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

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

Required Major Courses (21 units)	
☐ PHO-1 – Introduction to Photography	3.0
☐ PHO-2 – Beginning Black and White Photography	3.0
PHO-3 – Advanced Photography Lab	3.0
PHO-4 – Portfolio Photography	3.0
ART-12A – Design	3.0
ART-72 – Introduction to Digital Arts	3.0
ART-80 – Intro to Digital Photography & Photographic Imaging	3.0
Major Electives A (Complete 3 units)	
ART-1A – Art History Survey I	3.0
ART-1B – Art History Survey II	3.0
ART-3 – Drawing and Composition	3.0
Major Electives B (Complete 3 units)	
ART-6A – Watercolor and Gouache	3.0
ART-6B – Oils	3.0
ART-6C – Acrylics	3.0
ART-10 – Art Appreciation	3.0
ART-70 – Graphic Design/Computer Graphics	3.0
☐ ART-71 – Introduction to 2D digital Illustration	3.0
ART-77 – Introduction to Digital Video and Video Editing	3.0
	SUBTOTAL: 27 UNITS
General Education – Required Courses	
Students must complete one of the following General Education Plans:	
HCCD GE (see page 76)	
☐ English composition ☐ Oral communication and Critical thinking ☐ Mathematical Concepts and Quantitative Reasoning	
Arts and Humanities	
Social and Behavioral Sciences	
Physical and Biological Sciences	
Ethnic Studies	
Lifelong Learning and Self Development	CURTOTAL: 22 UNITS
Children on dauble count very fined courses and courses for Consul Education	SUBTOTAL: 23 UNITS
Students can double-count required courses and courses for General Education Flectives (Courses Numbered 1-199) required when degree units plus GF units total for	ewer than 60.

TOTAL: 60 UNITS

PHOTOGRAPHY (CT.PHO)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (21 units)

PHO-1 – Introduction to Photography	3.0
PHO-2 – Beginning Black and White Photography	3.0
PHO-3 – Advanced Photography Lab	3.0
PHO-4 – Portfolio Photography	3.0
ART-12A – Design	3.0
☐ ART-70 – Graphic Design/Computer Graphics	3.0
ART-80 – Intro to Digital Photo & Photographic Imaging	3.0
Major Electives (Complete 3 units)	
ART-1A – Art History Survey I	3.0
ART-1B – Art History Survey II	3.0
ART-77 – Digital Video, Editing and Production	3.0

TOTAL: 24 UNITS

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.

PROGRAM

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



DESCRIPTION

Physics is the natural science involving a general analysis of nature, 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 force. Physics overlaps with many interdisciplinary areas such as astronomy, biology, chemistry, and geology. Physics also makes significant 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 and biophysics. Some positions for which four-year graduates in physics are qualified are in research, teaching, engineering, medicine, and industry.

The Associate 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. For detailed requirements for individual four-year institutions, students should contact the transfer institution and/or meet with a counselor for specific transfer course requirements in their major.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

- Meteorologist
- Nuclear Physicist
- Physics Teacher
- Process Engineer
- Researcher
- Satellite Data Analyst
- Technical 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.

ASSOCIATE IN SCIENCE FOR TRANSFER

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

- apply fundamental physics laws, principles and widely accepted theories.
- demonstrate proficiency in solving problems that are appropriate to first-year-university students of calculus-level physics courses.
- collect and analyze data effectively using basic laboratory equipment, and present results and conclusions in formally structured laboratory reports.

Required Major Courses (24 units)

PHY-4A – General Physics I/Mechanics

SUBTOTAL: 24 UN	
MAT-5 – Differential Equations 3	.0
MAT-4 – Linear Algebra 3	.0
CSS-4 – Introduction to Scientific Programming 4	.0
CHM-1B – General Chemistry II 5	.0
CHM-1A – General Chemistry I 5	.0
Major Electives (None Required)	
MAT-3C – Analytic Geometry and Calculus III 4	.0
MAT-3B – Analytic Geometry and Calculus II 4	.0
MAT-3A – Analytic Geometry and Calculus I 4	.0
PHY-4C — General Physics III/Waves, Heat, Light, Sound and Modern Physics 4	.0
PHY-4B – General Physics II/Electricity and Magnetism 4	.0

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

4.0



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.

POLITICAL SCIENCE

PROGRAM

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



DESCRIPTION

The Associate in Arts in Political Science for Transfer allows students to focus their major course work and 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 paralegal, the 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 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

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

ASSOCIATE IN ARTS FOR TRANSFER

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

- demonstrate an ability to evaluate the governmental structures established by the Constitution of the United States of America and the California State Constitution.
- apply critical thinking skills in reading, comprehending, and interpreting political science scholarship.
- employ political science research methods to address political questions using primary and secondary sources.

Required Major Courses (16 units)

POL-1 – American Political Institution	3.0
☐ POL-2 – Introduction to Comparative Politics	3.0
☐ POL-3 – Introduction to International relations	3.0
POL-6 – Introduction to Contemporary Political Though	3.0
MAT-13 – Elementary Statistics	4.0
Major Electives (Complete 6 units)	
☐ ECO-1 – Principles of Macroeconomics	3.0
☐ ECO-5 – Principles of Microeconomics	3.0
☐ ETH-1 — Introduction to Ethnic Studies	3.0
POL-5 – Chicano Politics & American Political System	3.0
SOC-1 – Introduction to Sociology	3.0

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

SUBTOTAL: 22 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.

PROGRAMS

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

DESCRIPTION

Psychology is the 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 matters of everyday living.

The Psychology program offers two associate degrees: The AA degree (associate degree in psychology) and the AA-T degree (associate degree in psychology for transfer). The AA degree requires calculus along with more psychology courses (as opposed to the AA-T degree), and is recommended for students wishing to transfer to a University of California (UC) campus. The AA-T provides a clearly articulated curriculum for students who wish to transfer to a California State University (CSU) campus. 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 understanding of motivation and behavior that is valuable to many careers in business, government, education, and health care. Becoming a "psychologist," however, requires graduate level training. Psychologists with graduate degrees and professional certificates have a broad range of employment opportunities including clinical practice, research, and teaching. Hartnell College offers lower division transfer courses to meet the requirements for most baccalaureate majors offered by accredited colleges and universities. Psychology and counseling faculty are excellent resources for additional career information.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Academic Counselor
- Alcohol/Drug Counselor
- Career Counselor
- Child Psychologist
- Community Relations Director
- Corrections Officer
- Health Educator

- Mental Health Coordinator
- Nonprofit Director
- Psychiatrist
- Social Worker
- Student Affairs
 Administrator
- Teacher



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

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ASSOCIATE IN ARTS FOR TRANSFER

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

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

Required Major Courses (14 units)

☐ MAT-13 – Elementary Statistics	4.0
PSY-2 – General Psychology	3.0
PSY-9 – Research Methods in Psychology	4.0
PSY-10 – Introduction to Biological Psychology	3.0
Major Electives Courses (Complete 3 units)	
PSY-14 – Child Psychology	3.0
PSY-25 – Developmental Psychology –Lifespan	3.0
Major Electives Courses (Complete 3 units)	
PSY-6 – Social Psychology	3.0
PSY-15 – Human Sexuality	3.0
PSY-22 – Abnormal Psychology	3.0
	SUBTOTAL: 20 UNITS

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.

PUBLIC HEALTH

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

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PUBLIC HEALTH SCIENCE (AST.PHS)

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) 4.0 BIO-5 – Human Anatomy BIO-6 – Introductory Physiology 3.0 BIO-6L – Physiology Laboratory 2.0 BIO-10 – General Biology 4.0 CHM-1A – The General Chemistry I 5.0 CHM-22 - The Science of Chemistry I 4.0 ☐ HED-2 – Individual Health and Wellness 3.0 ☐ HES-1 — Introduction to Public Health 3.0 MAT-13 – Elementary Statistics 4.0 PSY-2 – General Psychology 3.0 **Major Electives (Complete 3 units)** ECO-1 – Principles of Macroeconomics 3.0 ECO-5 – Principles of Microeconomics 3.0 ☐ HES-2 — Health and Social Justice 3.0 HES-3 – Drug, Health and Society 3.0 → NUTR-1 – Nutrition 3.0 PSY-15 – Human Sexuality 3.0 SOC-1 – Introduction to Sociology 3.0 **SUBTOTAL: 33-34 UNITS**

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.



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.

TOTAL: 60 UNITS

RESPIRATORY CARE

PROGRAM

Associate of Science (A.S.)



DESCRIPTION

The Associate of Science in Respiratory Care prepares students to work as Registered Respiratory Therapists (RRTs) in acute and community-based settings such as hospitals, long term care facilities, home care, and clinics. RRTs help people of all ages with a variety of cardiopulmonary disorders. Responsibilities of an RRT include: evaluating and interpreting clinical and laboratory data to recommend treatment, consulting with members of the healthcare team, educating patients and families, responding to emergencies, and managing patients on life support.

The four-semester course of study consists of classroom, high-fidelity simulation, skills laboratory, seminar, and clinical experiences. Students must travel to clinical sites. Clinical experiences are completed in Monterey, Santa Clara, San Luis Obispo, and Santa Barbara counties. Upon successful completion of program requirements, graduates are eligible to take the National Board of Respiratory Care (NBRC) Registry Examination.

Program Outcomes: The Respiratory Care Program (RCP) at Hartnell College will provide skilled graduates to the healthcare community who have obtained their professional license (RCP) and credentials (RRT). The goal of the program is to prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Respiratory Therapist
- Educator
- Pulmonary Function Technologist

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

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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 four-year 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.

Students transferring from other respiratory care programs seeking placement into the second, third, or fourth semesters of the Associate Degree in Respiratory Care Program at Hartnell College should contact the Dean of Academic Affairs: Nursing and Health Sciences (831.770.6146). The Dean and academic counselors evaluate all transfer student records for course work equivalency. Syllabi, course outlines, and catalogs may be requested for the evaluation.

ACCEPTANCE TO THE RESPIRATORY CARE PROGRAM

The Respiratory Care Program requires separate application and screening procedures that must be completed independently from regular admission. Because the Respiratory Care program is impacted, completion of program prerequisites does not guarantee admission. Information can be obtained from the website (https://www.hartnell.edu/academics-affairs/academics/NHS/index.html), the Nursing and Health Sciences office (831.770.6146), or the Hartnell College Nursing and Health Sciences Program academic counselor (831.755.6820).

Application forms for the Respiratory Care Program and informational materials are available on the Hartnell College Respiratory Care Program website (https://www.hartnell.edu/academics-affairs/academics/NHS/index.html). Application forms are posted in December of each year for the following fall semester. Completed application forms and required documents must be submitted by the deadline date as stated on the application. Students are responsible for cost associated with uniforms, clinical and skills supplies, standardized tests and travel expenses to clinical sites located in in Monterey, Santa Clara, Santa Barbara and San Luis Obispo counties. Students accepted for entry into the Respiratory Care Program are required to attend the mandatory RCP Orientation Session. At the orientation, admission packets with health/drug screening and background check materials are distributed. Questions regarding these screenings should be directed to the Dean of Academic Affairs; Nursing and Health Sciences.

Minimum Requirements for Admissions Eligibility:

- 1. Hartnell College enrollment or a Hartnell College Application for Admission on file in the Office of Admissions and Records
- 2. Completion of all prerequisite courses with a minimum of a "C" grade as documented on official transcripts. Inprogress courses will not be accepted for admission GPA purposes. Science GPA Requirement: 2.5
- 3. Current American Heart Association Healthcare Provider Basic Life Support certification (required prior to entry into the program)

Success in the Respiratory Care Program is based on theoretical knowledge, RC skills proficiency, clinical reasoning, professional behaviors, and their application in the clinical setting. Students must achieve at least "C" grades in all RC major courses.

BACCALAUREATE PREPARATION: Students should consult with a counselor and appropriate college catalog for specific transfer requirements.

FOR MORE INFORMATION, CONTACT: Hartnell College Nursing and Health Sciences: (831) 770-6146

Email: NHS@hartnell.edu

Hartnell College Counselor: (831) 755-6820

RESPIRATORY CARE (AS.RCP)

ASSOCIATE OF SCIENCE

Program Goal: To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).

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

- comprehend, apply, and evaluate information necessary to practice as a respiratory care practitioner (cognitive) as evidenced by their ability to
 - o evaluate data to assess the appropriateness of prescribed respiratory care
 - o participate in the development and modification of respiratory care plans in a variety of settings
 - provide patient, family, and community education
- perform the skills competently as a respiratory care practitioner (psychomotor) as evidenced by their ability to
 - o apply problem-solving strategies in the patient care setting
 - o perform respiratory therapeutic and diagnostic procedures interventions in a timely manner consistent with patient safety and infection control standards.
- practice professional attitudes and behavior (affective) as evidenced by their ability to
 - o demonstrate ethical and professional behaviors
 - o demonstrate effective oral and written communication skills
 - o interact effectively with other members of the healthcare team
 - o communicate effectively in diverse groups while respecting beliefs and values of all persons

Required General Education Courses:

MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO PROGRAM (22-23 units)

4.0
3.0
2.0
4.0
3.0
3.0
4.0
3.0
3.0
3.0
3.0
3.0
3.0

CON'T OF RESPIRATORY CARE

RCP-110 – Foundations for Success	1.0	
RCP-50 – Respiratory Care Practitioner Responsibilities	1.5	
RCP-51 – Pharmacology and Medication Administration	3.0	
RCP-52 – Cardiopulmonary Anatomy and Physiology	3.0	
RCP-53 – Foundational Skills	1.0	
RCP-54 – Supervised Practice: Foundations	0.5	
SEMESTER – 12.5 units		
RCP-60 – Diagnostic Studies and Respiratory Care	3.0	
RCP-61 – Respiratory Therapeutics	3.0	
RCP-62 – Cardiopulmonary Pathophysiology	2.0	
RCP-63 – Beginning Clinical Experience	4.0	
RCP-64 – Supervised Practice: Beginning	0.5	
SEMESTER – 11.5 units		
RCP-70 – Neonetal and Pediatric Respiratory Care	2.0	
RCP-71 – Basic Mechanical Ventilation	3.0	
RCP-72 – Neurological and Traumatic Conditions	2.0	
RCP-73 – Intermediate Clinical Experience	4.0	
RCP-74 – Supervised Practice: Intermediate	0.5	
SEMESTER – 11 units		
RCP-80 – Advanced Respiratory Care	1.5	
RCP-81 – Advanced Mechanical Ventilation	3.0	
RCP-82 – Clinical Reasoning Seminar	2.0	
RCP-83 – Advanced Clinical Experiences	4.0	
RCP-84 – Supervised Practice: Advanced	0.5	
piratory Care Success Courses: (recommended, not require	d)	
RCP-225 – Success Strategies for 1st Semester RCP Stude		
RCP-226 – Success Strategies for 2 nd Semester RCP Stud	ents 0.5	
RCP-227 – Success Strategies for 3 rd Semester RCP Stude	ents 0.5	
RCP-228 – Success Strategies for 4 th Semester RCP Stude	ents 0.5	

TOTAL: 78 UNITS

SOCIAL JUSTICE

PROGRAMS

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



DESCRIPTION

Social Justice Studies Program will prepare students with lowerdivision coursework required at most universities for advancement to upper division coursework for the Bachelor's Degree with a major in Social Justice. This degree program is designed for those interested in seeking careers in a nonprofit advocacy environment or for students desiring transfer to a four-year Social Justice oriented degree program.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Consultant
- Correctional Officer
- Social Justice Specialist
- Social Worker
- Victim Advocate

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.

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

- demonstrate a deep knowledge of the history, causes, and contemporary manifestations of specific social justice issues related to social inequality.
- deconstruct institutional power residing in private enterprise, government, the media and/or the nonprofit sector.
- analyze how communities attempt to overcome problems associated with inequality, cultural stigma, prejudice, and discrimination.
- create and present analyses that effectively integrate theoretical and experiential knowledge of constituencies involved in social justice work.

Required Major Courses (9 units) SJS-20 – Introduction to Social Justice

SJS-22 – Women's Studies

☐ ETH-1 — Introduction to Ethnic Studies	3.0
☐ ETH-56 — Ethnic Studies Cinema - Silenced Voices	3.0
Additional to the second of th	
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
ETH-4 – Chicanx Culture	3.0
☐ ETH-5/POL-5 – Chicano Politics	3.0
ETH-6 – La Chicana	3.0
☐ ETH-7 – Chicana/o/x Theatre	3.0
☐ ETH-8 – Introduction to Asian American Studies	3.0
ETH-12 – Chicano Cinema	3.0
☐ ETH-13 — Introduction to Native Americans in the Salinas Valley	3.0
☐ ETH-21 – Introduction to African American Studies	3.0

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

3.0

3.0

SUBTOTAL: 18 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.

SOCIOLOGY

PROGRAM

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



DESCRIPTION

Sociology is the scientific study of human behavior in society. It uses a variety of research and theoretical perspectives to analyze and explain human social behavior and social change. Sociology students examine a wide range of human interactions including marriage and family units, crime and deviance, culture and social change, group processes and interactions having to do with class, race and gender; diversity and globalization, social stratification and mobility and social movements. Program courses will help develop the student's ability to examine the broader connections between personal life, public issues and social structure. Sociology provides a valuable major for a diverse range of career paths including teaching, social work, probation officer, employment counseling, urban planning and others.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Advocacy
- Case Management
- City Planning
- Counseling
- Consumer Researcher
- Demographers
- Human Resources
- Human Services
- Information Sourcing
- Law Enforcement
- Management
- Market Research
- Mental Health Services
- Non-Profit
- Police Officer
- Policy Analysis
- Probation Officer
- Program Development
- Programming 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.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

Public Administration

Public Relations

Researchers

Social Work

Urban Planner

Teacher

Teaching

Sales

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

- describe, discuss, and apply the core concepts of sociology including: social structure; culture, social stratification and inequality; race, ethnicity, gender and intersectionality; and globalization.
- apply core concepts of sociology to their professional, personal and civic lives.
- research, evaluate, and incorporate scholarly sources in a research paper.
- evaluate and discuss how sociological theories explain particular aspects of society.

Required Major Courses (10 units) SOC-1 – Introduction to Sociology 3.0 SOC-5 – Introduction to Social Problems 3.0 MAT-13 – Elementary Statistics 4.0 **Major Electives A Courses (Complete 6 units)** ADJ-51 – Criminology 3.0 PSY-6 – Social Psychology 3.0 SOC-20 – Sociology of Gender and Society 3.0 SOC-41 – Marriage and the Family 3.0 SOC-42 – Sociology of Minority Relations 3.0 **Major Electives B Courses (Complete 3 units)** SOC-15 – Sociology of Immigration & Identity in US 3.0 SOC-30 – Sociology of Latina/o in US Society 3.0 **SUBTOTAL: 19 UNITS**

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.

PROGRAMS

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



The Spanish degree program includes four semesters of the study of Spanish, one of the world's most influential languages and the fastest growing language in California. It provides students with the communication skills in understanding, speaking, reading, and writing, and prepares them to enter the workforce in many industries where knowledge of Spanish is valuable and imperative. Students will find a broad range of employment opportunities in educational, legal, and medical settings that include careers in interpretation, customer service, preschool education, childcare, health care, nutrition services, and in numerous areas of public safety. It is recommended that students intending to transfer to four-year institutions complete the Spanish AA-T degree instead.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Bilingual Educator
- Court Interpreter
- Foreign Correspondent
- Foreign Diplomat
- Importer/Exporter
- International Business
- International Consultant
- Interpreter/Translator
- Journalist
- Linguist
- Missionary
- National Security Agent
- Nonprofit Manager
- Social Worker
- Teacher
- Tour Organizer
- Travel Agent



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.

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

- converse and write in Spanish at the intermediate level with effective use of grammar, vocabulary, comprehensible pronunciation, and syntax on a range of topics such as personal and family lives, school or work, and current events.
- read and understand authentic texts in Spanish such as letters, essays, newspaper articles, poems, and/ or short stories.
- demonstrate knowledge and understanding of the linguistic, literary, and cultural contributions of the Spanish speaking world.

Required Major Courses (Complete 5 units) SPA-1 – Elementary Spanish 1 5.0 SPA-1S – Elementary Spanish 1 for Spanish Speakers 5.0 SPA-1X – Elementary Spanish 1 for Chicano Students 5.0 **Required Major Courses (Complete 5 units)** SPA-2 – Elementary Spanish 2 5.0 SPA-2S – Elementary Spanish 2 for Spanish Speakers 5.0 SPA-2X – Elementary Spanish 2 for Chicano Students 5.0 **Required Major Courses (Complete 5 units)** SPA-3 – Intermediate Spanish 1 5.0 SPA-3S – Intermediate Spanish 1 for Spanish Speakers 5.0 **Required Major Courses (Complete 5 units)** SPA-4 – Intermediate Spanish 5.0 SPA-4S – Intermediate Spanish 2 for Spanish Speakers 5.0 Major Electives (Complete 3 units) ANT-20 — Mesoamerica: Cultures and Civilizations of Mexico and Central America 3.0 ETH-4 – Chicanx Culture 3.0 HIS-6 – History of Mexico 3.0 HIS-49B – Chicano History B 3.0 **SUBTOTAL: 23 UNITS**

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.



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.

TOTAL: 60 UNITS

Students placing out of Spanish 1, 1S, or 1X are not awarded units for that course; therefore the student will need to take additional units from the elective list to complete the requirements for this degree. Students will choose to take an additional 3 unit course from the Restricted Major Electives list.

SPANISH (AA.SPA)

ASSOCIATE OF ARTS

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

- converse and write in Spanish with effective use of grammar, vocabulary, comprehensible pronunciation, and syntax.
- read and discuss authentic texts in Spanish such as letters, essays, newspaper articles, poems, and/or short stories.
- describe and provide examples of the linguistic, literary, and cultural contributions of the Spanish speaking world.

Spanish speaking world.		
Required Major Courses (Complete 5 units)		
SPA-1 – Elementary Spanish 1	5.0	
SPA-1S – Elementary Spanish 1 for Spanish Speakers	5.0	
SPA-1X – Elementary Spanish 1 for Chicano Students	5.0	
Required Major Courses (Complete 5 units)		
SPA-2 – Elementary Spanish 2	5.0	
SPA-2S – Elementary Spanish2 for Spanish Speakers	5.0	
SPA-2X – Elementary Spanish 2 for Chicano Students	5.0	
Required Major Courses (Complete 5 units)		
SPA-3 – Intermediate Spanish 1	5.0	
SPA-3S – Intermediate Spanish 1 for Spanish Speakers	5.0	
Required Major Courses (Complete 5 units)		
SPA-4 – Intermediate Spanish 2	5.0	
SPA-4S – Intermediate Spanish 2 for Spanish Speakers	5.0	
Major Electives (Complete 6 units)		
☐ ECE-2 – Child, Family, School & Community Relations	3.0	
☐ ECE-53 — Teaching in a Diverse Society	3.0	
☐ ETH-1 – Introduction to Ethnic Studies	3.0	
ETH-4 – Chicanx Culture	3.0	
	3.0	
SOC-42 – Sociology of Minority Relations	3.0	
		SUBTOTAL: 26 UNITS
General Education – Required Courses		
Students must complete one of the following General Education Plans:		
HCCD GE (see page 76)		
☐ English composition ☐ Oral communication and Critical thinking		
Social and Behavioral Sciences		
Physical and Biological Sciences		
Ethnic Studies		
☐ Lifelong Learning and Self Development		
		SUBTOTAL: 23 UNITS

TOTAL: 60 UNITS

STUDIO ARTS

PROGRAM

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



DESCRIPTION

Art is the study of communicating concepts and ideas visually. The 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 two- and three-dimensional works of art. 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:

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

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

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

- demonstrate a working knowledge of the core aesthetic principles of studio arts through visual problem solving in areas of two-dimensional and three-dimensional fine art;
- apply their understanding of studio arts to their professional, personal, and civic lives.

Required Major Courses (15 units)

ART-1A – Art History Survey I	3.0		
ART-1B – Art History Survey II	3.0		
☐ ART-3 – Drawing and Composition	3.0		
ART-12A – Design	3.0		
ART-13 – Three-Dimensional Design	3.0		
Major Electives (Complete 9 units)			
ART-6A – Watercolors & Gouache	3.0		

ANT-OA - Water Colors & Godache	3.0
ART-15A – Ceramics	3.0
ART-70 – Intro to Graphic Design & Computer Graphics	3.0
ART-71 – Introduction to 2D Digital Illustration	3.0
ART-72 – Introduction to Digital Art	3.0
PHO-1 – Introduction to Photography	3.0
AND	
PHO-2 – Beginning Black and White Photography	3.0

SUBTOTAL: 24 UNITS

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.

THEATRE ARTS

PROGRAMS

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

DESCRIPTION

ASSOCIATE IN ARTS FOR TRANSFER (AA-T)

The Associate in Arts degree in Theatre Arts for Transfer provides a clearly articulated curricular track for students who wish to transfer to 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 four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major. The Hartnell College Theatre Arts AA-T degree 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 Stage gives students the possibility of learning their craft within 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 four-year Theatre Arts and/or Film, Television, and 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 Stage gives students the possibility of learning their craft a professional context.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

Actor

Agent

Announcer

Art Director

Casting Director

Concert Venue Technician

Critic

Designer

Director

Model

Stage Manager

Teacher/Professor

Theatre Technician

Theme Park 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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

- demonstrate proficiency in theatre, terminology and performance skills, its basic theories, history and techniques, culminating in a live performance on stage.
- conduct and apply analysis and research skills of dramatic texts and instructional materials.
- work effectively as an ensemble member in a fully produced production formulating alternative solutions to theatrical production situations.
- analyze, interpret, and evaluate their own and others' work in the theatre as a patron and participant.

Required Major Courses (Complete 6 units)				
TAC-1 – Introduction to Theatre	3.0			
OR				
TAC-3 – History of Theatre	3.0			
☐ TAC-10 – Acting I – Acting for Everyone	3.0			
Required Major Courses (Complete 3 units)				
TAC-20 – Intro to Ensemble Play Production	3.0			
TAC-21 – Intro to Modern Play Production	3.0			
TAC-22 – Intro to Musical Theatre Production	3.0			
TAC-24 – Intro to World Theatre Production	3.0			
TAC-25 – Intro to Revival Play Production	3.0			
OR				
TAC-26 – Stage Scenic Construction	3.0			
TAC-28 – Make-up/Hair Techniques for the Stage	3.0			
TAC-29 – Stage Light and Sound	3.0			
TAC-40 – Stage Costuming Practicum	3.0			
Major Electives (Complete 9 units)	Maior Electives (Complete 9 units)			
TAC-2 – Script Analysis	3.0			
TAC-11 – Acting II	3.0			
TAC-30 – Fundamentals of Theatre Design	3.0			
If not used in Required Major Courses (3 units maximum from these courses)				
☐ TAC-20 – Intro to Ensemble Play Production	3.0			
TAC-21 – Intro to Modern Play Production	3.0			
TAC-22 – Intro to Musical Theatre Production	3.0			
TAC-24 – Intro to World Theatre Production	3.0			
TAC-25 – Intro to Revival Play Production	3.0			
OR				
TAC-26 – Scenic Construction	3.0			
TAC-28 – Make-up/Hair Techniques for the Stage	3.0			
TAC-29 – Stage Light and Sound	3.0			
TAC-40 – Stage Costuming Practicum	3.0			
	SUBTOTAL: 18 UNITS			

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.
- 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.

THEATRE ARTS AND CINEMA

PROGRAMS

Associate of 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 four-year Theatre Arts and/or Film, Television, and 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 Stage gives students the possibility of learning their craft within a professional context.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

- Designer
- Director
- Model
- Stage Manager
- Teacher/Professor
- Theatre Technician
- Theme Park 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.org – CSU and UC Articulation Agreements and Major Search Engine

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

FINANCIAL AID

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THEATRE ARTS AND CINEMA (AA.TAC)

ASSOCIATE OF ARTS

Program Outcomes: Upon successful completion of this program a student will be able to: demonstrate proficiency in theatre, and/or film, television, and electronic media terminology and performance skills, its basic theories, history and techniques, culminating in a media production or live performance on stage. conduct and apply analysis and research skills of dramatic texts and instructional materials. work effectively as an ensemble member in a fully produced production formulating alternative solutions to theatrical production analyze, interpret, and evaluate their own and others' work in theatre & cinema as a patron and participant. Required Major Courses (Complete 15 units) TAC-1 – Introduction to Theatre 3.0 OR TAC-50 - Introduction to Film 3.0 TAC-3 – History of Theatre 3.0 TAC-10 – Acting I 3.0 TAC-2 – Script Analysis 3.0 TAC-53 – Playwriting and Screenwriting 3.0 TAC-30 – Fundamentals of Theatre Design 3.0 Required Major Courses (Complete 3 units) Production: TAC -17, 20, 21, 22, 24, 25, 53, 54 3.0 Technical Design: TAC-26, 27, 28, 29, 40, 91 3.0 **CHOOSE ONE AREA OF EMPHASIS BELOW** THEATRE EMPHASIS Major Electives (Complete 6 units -NOT TAKEN IN REQUIRED MAJOR COURSES) TAC-2 – Script Analysis TAC-7/ETH-7 – Chicano Theatre 3.0 ☐ TAC-11 - Acting II 3.0 TAC-15 – Acting for the Camera 3.0 TAC-23 – Introduction to Theatre for Social Change 3.0 TAC-53 – Playwriting and Screenwriting 3.0 3.0 ☐ TAC-55 – Directing TAC-92 – Children's Theatre 3.0 FILM, TELEVISION, ELECTRONIC MEDIA EMPHASIS Major Electives (Complete 6 units -NOT TAKEN IN REQUIRED MAJOR COURSES) TAC-50 – Introduction to Film: History up to the 1960's TAC-51 – Beginning TV Studio Production 3.0 TAC-54 – Video Production Lab – Single Camera 3.0 TAC-58 – Introduction Media Writing 3.0 **SUBTOTAL: 24 UNITS** (Note: If you are planning to transfer, be sure to speak with a counselor to ensure you are taking all of the required transfer level courses.) **General Education – Required Courses** Students must complete one of the following General Education Plans: HCCD GE (see page 76) ☐ English composition ☐ Oral communication and Critical thinking Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities Social and Behavioral Sciences Physical and Biological Sciences Ethnic Studies Lifelong Learning and Self Development **SUBTOTAL: 23 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: 60 UNITS

THEATRE PERFORMANCE (NCCT.TPER)

PROGRAM

Certificate of Completion



DESCRIPTION

This noncredit certificate prepares students with 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, 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 Performance Certificate of Completion will provide students with vocational training in a production environment, helping students develop professional competency in acting and theatrical production for professional, educational, community-based, and/or regional theatre environments, or for the related areas of film, television, general entertainment and/or hospitality. Working with resident professional theatre company, The Western Stage, students will have the opportunity to learn their craft within a professional context.

Program Outcomes: Upon completion of the Non-Credit Theatre Performance Certificate of Completion, students will:

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

REQUIRED COURSES

REQUIRED COURSES
TAC-326, Stage Scenic Construction - 112-126 hrs
TAC-327, Scenic Painting, Properties and Technical Production Techniques - 112-126 hr
TAC-328, Makeup/Hair Techniques for the Stage 112-126 hrs
TAC-329, Stage Lighting and Sound - 112-126 hrs
TAC-340, Stage Costuming Practicum - 112-126 hrs

FOR MORE INFORMATION CALL (831) 755-6916

THEATRE PRODUCTION (NCCT.TPRO)

PROGRAM

Certificate of Completion



DESCRIPTION

This noncredit certificate prepares students with 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, 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 and theatrical production for professional, educational, community-based, and/or regional theatre environments, or for the related areas of film, television, general entertainment and/or hospitality. Working with resident professional theatre company, The Western Stage, students will have the opportunity to learn their craft within a professional context.

Program Outcomes: Upon completion of the Non-Credit Theatre Production Certificate of Completion, students will:

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

REQUIRED COURSES

TAC-320, Introduction to Ensemble Play Production – 112-126 hrs
TAC-321, Introduction to Modern Play Production – 112-126 hrs
TAC-322, Introduction to Musical Theatre Production – 112-126 hrs
TAC-324, Introduction to World Theatre Production – 112-126 hrs
TAC-325, Introduction to Revival Play Production – 112-126 hrs

FOR MORE INFORMATION
CALL (831) 755-6916

THEATRE PRODUCTION AND PERFORMANCE (NCCT.TPRPE)

PROGRAM

Certificate of Completion



DESCRIPTION

This noncredit certificate prepares students with 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, 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 and Theatre Performance Certificate of Completion will provide students with vocational training in a production environment, helping students develop professional competency in acting and theatrical production for professional, educational, community-based, and/or regional theatre environments, or for the related areas of film, television, general entertainment and/or hospitality. Working with resident professional theatre company, The Western Stage, students will have the opportunity to learn their craft within a professional context.

Program Outcomes: Upon completion of the Noncredit Theatre Production and Theatre Performance Certificate of Completion, students will:

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

REQUIRED COURSES

TAC-320, Introduction to Ensemble Play Production – 112-126 hrs
TAC-321, Introduction to Modern Play Production – 112-126 hrs
TAC-322, Introduction to Musical Theatre Production – 112-126 hrs
TAC-324, Introduction to World Theatre Production – 112-126 hrs
TAC-325, Introduction to Revival Play Production – 112-126 hrs
TAC-326, Stage Scenic Construction - 112-126 hrs
TAC-327, Scenic Painting, Properties and Technical Production Techniques - 112-126 hrs
TAC-328, Makeup/Hair Techniques for the Stage - 112-126 hrs
TAC-329, Stage Lighting and Sound - 112-126 hrs
TAC-340, Stage Costuming Practicum - 112-126 hrs

FOR MORE INFORMATION
CALL (831) 755-6916

WELDING

PROGRAMS

- Associate of Science (A.S.)
- Certificate of Achievement



The Welding Technology program provides students with entry- and advanced-level employment skills in welding and metalworking 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 and pipe welding prepare students for American Welding Society welding certification testing. The program offers courses in sheet metal 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 and 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 OPPORTUNITIES SUCH AS:

- Aerospace
- Agriculture
- Automotive Manufacturer and Repair
- Chemical Processing
- Construction
- Cutter
- General Manufacturing
- Oil and Gas Extraction
- Plumbing and Pipe Welding
- Underwater Welding
- Welder



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.

WELDING (AS.WLD)

ASSOCIATE OF SCIENCE

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

- demonstrate the use of welding and metal cutting processes safely and correctly.
- perform welding procedures in two or more methods on steel test plates in two or more welding positions.
- interpret and analyze fabrication prints, develop parts and cutting lists, and select and calibrate welding and cutting methods to fabricate assigned projects.

Required Courses (28 units)		
☐ CMA-74 – Industrial Print Reading and Drawing	3.0	
☐ MFGT-110- Industrial Safety	2.0	
☐ WLD-150 – Introduction to Arc Welding	3.0	
	3.0	
☐ WLD-152 – Sheet Metal Fabrication	2.0	
☐ WLD-153 – Welding Fabrication	3.0	
	3.0	
	2.0	
	2.0	
☐ WLD-157 – Pipe Welding	3.0	
WLD-158 – Hardfacing and Surfacing	2.0	
Restricted Major Electives (Complete 9 units)		
☐ CMA-75 – Engineering Drawing/Solid Works	3.0	
CMA-81 – Computer Aided Drafting and Design	3.0	
☐ MFGT-111a – Introduction to Metal Fabrication	3.0	
☐ MFGT-150 − Introduction to Industrial Electricity	2.0	
☐ WLD-99 – Cooperative Work Experience	1.0-4.0	
		SUBTOTAL: 37 UNITS
General Education – Required Courses		
Students must complete one of the following General Education Plans:		
HCCD GE (see page 76)		
☐ English composition ☐ Oral communication and Criti	cal thinking	
Mathematical Concepts and Quantitative Reasoning ☐ Arts and Humanities		
Social and Behavioral Sciences		
Physical and Biological Sciences		
Ethnic Studies		
Lifelong Learning and Self Development		

SUBTOTAL: 23 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: 60 UNITS

WELDING (CT.WLD)

CERTIFICATE OF ACHIEVEMENT

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

- demonstrate the use of welding and metal cutting processes safely and correctly.
- perform welding procedures in two or more methods on steel test plates in two or more welding positions.
- interpret and analyze fabrication prints, develop parts and cutting lists, and select and calibrate welding and cutting methods to fabricate assigned projects.

Required Major Courses (24 units)

CMA-74 – Industrial Print Reading and Drawing	3.0			
	2.0			
☐ WLD-150 − Introduction to Arc Welding	3.0			
☐ WLD-151 – Introduction to GTAW/TIG Welding	3.0			
	3.0			
	3.0			
☐ WLD-155 – Ornamental Ironwork	2.0			
	2.0			
☐ WLD-157 – Pipe Welding	3.0			
Major Electives (Complete 6 units)				
	2.0			
	2.0			
☐ WLD-99 – Cooperative Work Experience	1.0-4.0			

TOTAL: 30 UNITS

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