

HARTNELL COLLEGE DEGREES AND CERTIFICATES

	Associate Degree	Certificate		Associate Degree	Certificate
Program			Program		
Addiction Studies	■ AA	■	Engineering	■ AS	
Administration of Justice for Transfer	■ AS-T		Engineering Fundamentals		■
Administration of Justice	■ AS	■	English for Transfer	■ AA-T	
Advanced Automotive Technology	■ AS		Film, Television, and Electronic Media	■ AS-T	
Advanced Diesel Technology	■ AS		General Studies:	■ AA	
Agriculture Business for Transfer	■ AS-T		Ethnic Groups in the United States Emphasis		
Agriculture Plant Science for Transfer	■ AS-T		Human Emphasis		
Agriculture with an Emphasis	■ AA		Language and Rationality Emphasis		
Business Emphasis		■	Natural Science Emphasis		
Production Emphasis		■	Social and Behavioral Sciences Emphasis		
Food Safety		■	Geology for Transfer	■ AS-T	
Small Farm		■	High School Equivalency		■
Sustainable Crop Management		■	History for Transfer	■ AA-T	
Astronomy	■ AA		Kinesiology for Transfer	■ AA-T	
Basic Computer Literacy		■	Kinesiology	■ AS	
Basic English		■	Intersegmental General Education Transfer (IGETC)		■
Biology for Transfer	■ AS-T		Law, Public Policy and Society for Transfer	■ AA-T	
Biology	■ AA		Liberal Arts:	■ AA	
Business Administration 2.0 for Transfer	■ AS-T		Anthropology Emphasis		
Business office Technology:			Social and Behavioral Sciences Emphasis		
Bookkeeping		■	Humanities Emphasis		
Business Information Worker Level 1		■	Languages and Literature Emphasis		
Business Information Worker Level 2		■	Manufacturing Technology	■ AS	
Information Processing		■	Mathematics for Transfer	■ AS-T	
Chemistry for Transfer	■ AS-T		Music for Transfer	■ AA-T	
Chicanx Studies	■ AA		Music	■ AA	
Communication Studies for Transfer	■ AA-T		Nursing:		
Computer Science for Transfer	■ AS-T		Registered Nursing	■ AS	
Computer Science and Information Systems:			Vocational Nursing	■ AS	■
Computer Science Option	■ AS	■	Photography	■ AA	
Cisco Certified Network Associate		■	Physics for Transfer	■ AS-T	
Cybersecurity		■	Political Science for Transfer	■ AA-T	
Digital Web and Mobile Development	■ AS		Psychology for Transfer	■ AA-T	
Mobile Development Option		■	Psychology	■ AA	
Web Development Option		■	Public Health Science for Transfer	■ AS-T	
Network and Security Option	■ AS	■	Respiratory Care	■ AS	
Technical Support		■	Social Justice for Transfer	■ AA-T	
Construction Management and Architecture	■ AS		Sociology for Transfer	■ AA-T	
CSU/General Education Breadth		■	Spanish for Transfer	■ AA-T	
Digital Arts	■ AA	■	Spanish	■ AA	
Early Childhood Education for Transfer	■ AS-T		Studio Arts for Transfer	■ AA-T	
Early Childhood Education	■ AS		Theatre Arts for Transfer	■ AA-T	
Economics for Transfer	■ AA-T		Theatre Arts and Cinema	■ AA	
Elementary Teacher Preparation for Transfer	■ AA-T		Welding Technology	■ AS	
Emergency Medical Technician		■			

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



DESCRIPTION

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

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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/> AOD-1 – Fundamentals of Chemical Dependency	3.0
<input type="checkbox"/> AOD-2 – Pharmacology and Physiology of Alcohol and Other Drugs	3.0
<input type="checkbox"/> AOD-3 – Introduction to Case Management and Treatment Planning	3.0
<input type="checkbox"/> AOD-4 – Counseling Diverse Populations	3.0
<input type="checkbox"/> AOD-5 – Legal/Ethical Considerations and Professional Growth	3.0
<input type="checkbox"/> AOD-6 – Prevention, Education, and Relapse Prevention	3.0
<input type="checkbox"/> AOD-9 – Co-Occurring Disorders	3.0
<input type="checkbox"/> AOD-10 – Chemical Dependency Practicum Seminar	3.0
<input type="checkbox"/> AOD-11 – Individual, Group, and Family Counseling	3.0
<input type="checkbox"/> AOD-99 – Practicum in Chemical Dependency	4.0

Major Electives (Complete 9 units)

<input type="checkbox"/> PSY-2 – General Psychology	3.0
<input type="checkbox"/> PSY-6 – Social Psychology	3.0
<input type="checkbox"/> PSY-22 – Abnormal Psychology	3.0
<input type="checkbox"/> PSY-33 – Personal and Social Adjustment	3.0
<input type="checkbox"/> PSY-41 – Psychology of Human Relations	3.0
<input type="checkbox"/> SOC-1 – Introduction to Sociology	3.0
<input type="checkbox"/> SOC-41 – Marriage and the Family	3.0

SUBTOTAL: 40 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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)

<input type="checkbox"/>	AOD-1 – Fundamentals of Chemical Dependency	3.0
<input type="checkbox"/>	AOD-2 – Pharmacology and Physiology of AOD	3.0
<input type="checkbox"/>	AOD-3 – Intro to Case Management and Treatment Planning	3.0
<input type="checkbox"/>	AOD-4 – Counseling Diverse Populations	3.0
<input type="checkbox"/>	AOD-5 – Legal/Ethical Considerations & Professional Growth	3.0
<input type="checkbox"/>	AOD-6 – Prevention, Education, and Relapse Prevention	3.0
<input type="checkbox"/>	AOD-9 – Co-Occurring Disorders	3.0
<input type="checkbox"/>	AOD-11- Individual, Group, and Family Counseling	3.0
<input type="checkbox"/>	PSY-2 – General Psychology	3.0

Major Electives (Complete 9 units)

<input type="checkbox"/>	PSY-25 – Developmental Psychology-Lifespan	3.0
<input type="checkbox"/>	PSY-33 – Personal and Social Adjustment	3.0
<input type="checkbox"/>	PSY-41 – Psychology of Human Relations	3.0

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing and Reading II	3.0
<input type="checkbox"/>	MAT-121** – Elementary Algebra	3.0

TOTAL: 36 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

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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

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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 systems.
- 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-1 – Introduction to Administration of Justice 3.0
- ADJ-3 – Concepts of Criminal Law 3.0

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 Procedure 3.0

Major 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

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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.

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.
- 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)

MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
- Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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)

<input type="checkbox"/>	ADJ-1 – Introduction to Administration of Justice	3.0
<input type="checkbox"/>	ADJ-2 – Community Relation & the Justice System	3.0
<input type="checkbox"/>	ADJ-3 – Concepts of Criminal Law	3.0
<input type="checkbox"/>	ADJ-4 – Criminal Evidence	3.0
<input type="checkbox"/>	ADJ-5 – Criminal Court Process	3.0
<input type="checkbox"/>	ADJ-11 – Law Enforcement Report Writing	3.0
<input type="checkbox"/>	ADJ-21A – Narcotics and Dangerous Drugs	3.0

Other Required Courses

<input type="checkbox"/>	ENG-1A – College Composition and Reading	3.0
<input type="checkbox"/>	MAT-106* – Integrated Mathematics	3.0

TOTAL: 21 UNITS

*Eligibility for MAT-126 or any higher level math class fulfills this requirement.

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.

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>

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LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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 Major Courses (44 units)

<input type="checkbox"/>	AAT-100 – Introduction to Automotive Repair	4.0
<input type="checkbox"/>	AAT-101 – Engine Rebuild	4.0
<input type="checkbox"/>	AAT-110 – Climate Control	4.0
<input type="checkbox"/>	AAT-120 – Electrical and Electronic Systems	4.0
<input type="checkbox"/>	AAT-121 – Electronic Systems and Controls	4.0
<input type="checkbox"/>	AAT-130 – Engine Performance	4.0
<input type="checkbox"/>	AAT-140 – Brake Systems	4.0
<input type="checkbox"/>	AAT-141 – Steering and Suspension	4.0
<input type="checkbox"/>	AAT-150 – Manual Transmissions and Drivetrain	4.0
<input type="checkbox"/>	AAT-151 – Automatic Transmissions	4.0
<input type="checkbox"/>	BUS-43 – Business Info Systems and Info Literacy	4.0
OR		
<input type="checkbox"/>	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) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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.

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.

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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

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.
- demonstrate basic computer literacy skills.

Required Major Courses (44 units)

<input type="checkbox"/> ADT-100 – Diesel Engine Technology	4.0
<input type="checkbox"/> ADT-101 – Diesel Engine Rebuild	4.0
<input type="checkbox"/> ADT-110 – Electrical and Electronic Systems	4.0
<input type="checkbox"/> ADT-111 – Electrical Systems and Controls	4.0
<input type="checkbox"/> ADT-120 – Climate Control	4.0
<input type="checkbox"/> ADT-121 – Preventative Maintenance	4.0
<input type="checkbox"/> ADT-130 – Brake Systems	4.0
<input type="checkbox"/> ADT-131 – Steering and Suspension Systems	4.0
<input type="checkbox"/> ADT-140 – Power Drivetrain	4.0
<input type="checkbox"/> ADT-141 – Automatic Transmissions	4.0
<input type="checkbox"/> BUS-43 – Business Info Systems and Info Literacy	4.0
OR	
<input type="checkbox"/> BUS-50 – Introduction to PC Applications	4.0

SUBTOTAL: 44 UNITS

General Education – Required Courses

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HCCD GE (see page 76) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 65 UNITS

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.

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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 (16 units)

<input type="checkbox"/> ABT-90 – Soil Science	3.0
<input type="checkbox"/> ABT-53 – Agribusiness Economics	3.0
<input type="checkbox"/> ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/> ECO-1 – Principles of Macroeconomics	3.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0

Major Electives (Complete 9 units)

<input type="checkbox"/> ABT-49 – Introduction Agriculture Business	3.0
<input type="checkbox"/> ABT-52 – Sales & Service in Agribusiness	3.0
<input type="checkbox"/> ABT-57 – Agriculture Computer Applications	3.0
<input type="checkbox"/> ABT-92 – Plant Science	3.0

Recommended Major Electives (None required)

<input type="checkbox"/> BUS-1A – Financial Accounting	4.0
<input type="checkbox"/> CHM-22 – The Science of Chemistry	4.0

SUBTOTAL: 25 UNITS

General Education –Required Courses

Students must complete the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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)



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.

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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/> ABT-90 – Soil Science	3.0
<input type="checkbox"/> CHM-22 – Introduction to Chemistry	4.0
OR	
CHM-1A – General Chemistry	5.0
<input type="checkbox"/> ABT-53 – Agribusiness Economics	3.0
OR	
ECO-5 – Principles of Microeconomics	3.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/> ABT-92 – Plant Science	3.0
<input type="checkbox"/> 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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.comSM**
*Associate Degree
for Transfer*

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.
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



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.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/>	ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/>	ABT-90 – Soil Science	3.0
<input type="checkbox"/>	ABT-92 – Plant Science	3.0
<input type="checkbox"/>	ABT-99 – Occupational Cooperative Work Experience (3 units recommended)	1.0-3.0
<input type="checkbox"/>	ABT-57 – Agriculture Computer Applications	3.0
OR		
	BUS-43 – Business Information Systems and Information Literacy	4.0
OR		
	BUS-50 – Introduction to PC Applications	4.0

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
 - o Complete **2 courses** 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**
 - o 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)**
 - o **Complete:** ABT-41, ABT-80, & ABT-83
 - 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

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (*see page 76*) **MAT-126 or higher**

- Natural Sciences** **Social & Behavioral Sciences** **Humanities**
- Ethnic Groups in the US** **Language and Rationality**

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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)

<input type="checkbox"/>	ABT-110 – Careers in Agriculture and Technology	2.0
<input type="checkbox"/>	ABT-49 – Introduction to Agriculture Business	3.0
<input type="checkbox"/>	ABT-54 – Agriculture Marketing	3.0
<input type="checkbox"/>	ABT-58 – Agriculture Laws & Regulations	3.0
<input type="checkbox"/>	ABT-90 – Soil Science	3.0
<input type="checkbox"/>	ABT-92 – Plant Science	3.0
<input type="checkbox"/>	ABT-99 – Cooperative Work Experience	1.0-3.0
<input type="checkbox"/>	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 Electives (Complete 6 units)

<input type="checkbox"/>	ABT-52 – Sales & Services in Agribusiness	3.0
<input type="checkbox"/>	ABT-53 – Agribusiness Economic	3.0
	OR	
	ECO-5 – Principles of Microeconomics	
<input type="checkbox"/>	ABT-80 – Introduction to Sustainable Agriculture & Food	3.0
<input type="checkbox"/>	ABT-160 – Introduction to Agriculture	3.0
<input type="checkbox"/>	BUS-1A – Financial Accounting	4.0
<input type="checkbox"/>	BUS-18 – The Legal Environment of Business	3.0

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing and Reading II	5.0
<input type="checkbox"/>	MAT-121** – Elementary Algebra	5.0

TOTAL: 27-30 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/>	ABT-110 – Careers in Agriculture and Technology	2.0
<input type="checkbox"/>	ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/>	ABT-90 – Soil Science	3.0
<input type="checkbox"/>	ABT-92 – Plant Science	3.0
<input type="checkbox"/>	ABT-99 – Cooperative Work Experience	1.0-3.0
<input type="checkbox"/>	ABT-57 – Agriculture Computer Applications	3.0
	OR	
	BUS-43 – Business Information Systems and Info Literacy	4.0
	OR	
	BUS-50 – Introduction to PC Applications	4.0

Major A Electives (Complete 6 units)

<input type="checkbox"/>	ABT-91 – Irrigation Practices and Materials	3.0
<input type="checkbox"/>	ABT-95 – Introduction to Small Fruit Science	3.0
<input type="checkbox"/>	ABT-96 – Vegetable Crop Production	3.0
<input type="checkbox"/>	ABT-97 – Vineyard Production & Management	3.0
<input type="checkbox"/>	ABT-98 – Fertilizers & Plant Nutrition	3.0

Major B Electives (Complete 6 units)

<input type="checkbox"/>	ABT-41 – Pesticide Applicator Certification Training	3.0
<input type="checkbox"/>	ABT-66 – Intro to Geographic Information System	3.0
<input type="checkbox"/>	ABT-67 – Intermediate GIS w/ Applications to Agriculture	4.0
<input type="checkbox"/>	ABT-80 – Introduction to Sustainable Agriculture & Food	3.0
<input type="checkbox"/>	ABT-81 – Integrated Pest Management Principles in Entomology	3.0
<input type="checkbox"/>	ABT-82 – Integrated Pest Management Principles in Weed Science	3.0
<input type="checkbox"/>	ABT-83 – Integrated Pest Management Principles in Plant Pathology	3.0
<input type="checkbox"/>	ABT-93 – Product Processing and Cooling	3.0
<input type="checkbox"/>	ABT-160 – Introduction to Agriculture	3.0
<input type="checkbox"/>	AIT-70 – Introduction to Mechanized Agriculture	3.0
	OR	
	AIT-71 – Agricultural and Industrial Equipment Operation	
	OR	
	AIT-75 – Agricultural Machinery Management	
<input type="checkbox"/>	ABT-101 – Organic Vegetable Production	1.5
<input type="checkbox"/>	ABT-102 – Organic Field Production Methods	1.5
<input type="checkbox"/>	ABT-103 – Ag Planning and Recordkeeping for Small Farmers	1.5
<input type="checkbox"/>	ABT-104 – Ag Business Development for New Organic Farmers	1.5
<input type="checkbox"/>	ABT-105 – Marketing Opportunities and Growth for Organic Farming	1.5
<input type="checkbox"/>	ABT-130 – Introduction to Food Safety	1.5

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing and Reading II	5.0
<input type="checkbox"/>	MAT-121** – Elementary Algebra	5.0

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/students/fa/net-price-calculator.html>

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math course fulfills this requirement.

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)

<input type="checkbox"/>	ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/>	ABT-130 – Introduction to Food Safety	1.5
<input type="checkbox"/>	ABT-131 – Agricultural Practices for Food Safety	1.5
<input type="checkbox"/>	ABT-132 – Food Safety Management	1.5
<input type="checkbox"/>	ABT-133 – Facility Management for Food Safety	1.5
<input type="checkbox"/>	ABT-134 – Environmental Effects on Food Borne	1.5
<input type="checkbox"/>	ABT-135 – Introduction to Food Microbiology	1.5

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing and Reading II	5.0
<input type="checkbox"/>	MAT-106** – Integrated Mathematics	3.0

TOTAL: 12 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

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/students/fa/net-price-calculator.html>

SMALL FARM (CT.AGSF)

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)

<input type="checkbox"/>	ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/>	ABT-90 – Soil Science	3.0
<input type="checkbox"/>	ABT-92 – Plant Science	3.0
<input type="checkbox"/>	ABT-94 – Agriculture Enterprise Project	2.0
<input type="checkbox"/>	ABT-99 – Cooperative Work Experience	1.0-3.0
<input type="checkbox"/>	ABT-57 – Agriculture Computer Applications	3.4
	OR	
	BUS-43 – Business Information Systems and Information Literacy	
	OR	
	BUS-50 – Introduction PC Applications	
<input type="checkbox"/>	ABT-101 – Organic Vegetable Production	1.5
<input type="checkbox"/>	ABT-102 – Organic Field Production Methods	1.5
<input type="checkbox"/>	ABT-103 – Agriculture Whole Farm Planning and Recordkeeping for Small Farm	1.5
<input type="checkbox"/>	ABT-104 – Agriculture Business Development for New Organic Farmers	1.5
<input type="checkbox"/>	ABT-105 – Marketing Opportunities and Growth for Organic Farming	1.5
<input type="checkbox"/>	ABT-130 – Introduction to Food Safety	1.5

Restricted Major Electives, Group A (6 units - Select two courses)

<input type="checkbox"/>	ABT-95 – Introduction to Small Fruit Science	3.0
<input type="checkbox"/>	ABT-96 – Vegetable Crop Production	3.0
<input type="checkbox"/>	ABT-97 – Vineyard Production and Management	3.0
<input type="checkbox"/>	ABT-98 – Fertilizers and Plant Nutrition	3.0

Restricted Major Electives, Group B (Complete 3 units)

<input type="checkbox"/>	ABT-41 – Pesticide Applicator Certification Training	3.0
<input type="checkbox"/>	MFGT-70 – Introduction to Mechanized Agriculture	3.0
	OR	
	MFGT-71 – Agricultural and Industrial Equipment Operation	3.0
	OR	
	MFGT-75 – Agricultural Machinery Management	3.0

Group B Major Electives to meet specific student needs:

<input type="checkbox"/>	ABT-80 – Introduction to Sustainable Agriculture and Food	3.0
<input type="checkbox"/>	ABT-81 – Integrated Pest Management Principles in Entomology	3.0
<input type="checkbox"/>	ABT-82 – Integrated Pest Management Principles in Weed Science	3.0
<input type="checkbox"/>	ABT-83 – Integrated Pest Management Principles in Plant Pathology	3.0
<input type="checkbox"/>	ABT-93 – Product Processing & Cooling	3.0
<input type="checkbox"/>	ABT-160 – Introduction to Agriculture	3.0
<input type="checkbox"/>	ABT-131 – Agricultural Practices for Food Safety	1.5
<input type="checkbox"/>	ABT-135 – Introduction to Food Microbiology	1.5

TOTAL: 33-36 Units

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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/students/fa/net-price-calculator.html>

Required Major Courses (22 units)

<input type="checkbox"/>	ABT-58 – Agriculture Laws and Regulations	3.0
<input type="checkbox"/>	ABT-80 – Introduction to Sustainable Agriculture and Food	3.0
<input type="checkbox"/>	ABT-83 – Integrated Pest Management Principles in Plant Pathology	3.0
<input type="checkbox"/>	ABT-90 – Soil Science	3.0
<input type="checkbox"/>	ABT-92 – Plant Science	3.0
<input type="checkbox"/>	ABT-99 – Cooperative Work Experience	1.0-3.0
<input type="checkbox"/>	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.

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

TOTAL: 28 Units

ASTRONOMY

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

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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/>	AST-1 – Introduction to Astronomy	3.0
<input type="checkbox"/>	AST-1L – Astronomy Laboratory	1.0
<input type="checkbox"/>	PHY-4A – General Physics I/Mechanics	4.0
<input type="checkbox"/>	PHY-4B – General Physics II/Electricity and Magnetism	4.0
<input type="checkbox"/>	PHY-4C – General Physics III/ Waves, Heat and Modern Physics	4.0
<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/>	MAT-3C – Analytic Geometry and Calculus III	4.0
<input type="checkbox"/>	MAT-4 – Linear Algebra	3.0
<input type="checkbox"/>	MAT-5 – Differential Equations	3.0

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

<input type="checkbox"/>	CHM-1A – General Chemistry I	5.0
<input type="checkbox"/>	CSS-1 – Introduction to Computer Science and Programming	4.0
<input type="checkbox"/>	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:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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

BASIC COMPUTER LITERACY

PROGRAM

- **Certificate of Completion**



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.

FOR MORE INFORMATION

CALL (831) 755-6701

BIOLOGY

PROGRAMS

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



DESCRIPTION

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
- Research/Professor
- Water Quality Technician
- Wildlife Biologist
- Wildlife Resource 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

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/students/fa/net-price-calculator.html>

BIOLOGY FOR TRANSFER (AST.BIO)

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)

<input type="checkbox"/>	BIO-1 – Fundamental Biological Concepts	5.0
<input type="checkbox"/>	BIO-2 – General Zoology	5.0
<input type="checkbox"/>	BIO-3 – General Botany	5.0
<input type="checkbox"/>	CHM-1A – General Chemistry I	5.0
<input type="checkbox"/>	CHM-1B – General Chemistry II	5.0
<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0

Required Courses (Select 1 series 8 units)

<input type="checkbox"/>	PHY-2A – College Physics I	4.0
	AND	
	PHY-2B – College Physics II	4.0
	OR	
<input type="checkbox"/>	PHY-4A – General Physics I/Mechanics	4.0
	AND	
	PHY-4B – General Physics II/Electricity and Magnetism	4.0

Recommended Major Electives (None Required)

<input type="checkbox"/>	CHM-12A – Organic Chemistry I	5.0
<input type="checkbox"/>	CHM-12B – Organic Chemistry II	5.0
<input type="checkbox"/>	MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/>	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 80) 33 units

IGETC for STEM (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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

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 (33 units)

<input type="checkbox"/> BIO-1 – Fundamental Biological Concepts	5.0
<input type="checkbox"/> BIO-2 – General Zoology	5.0
<input type="checkbox"/> BIO-3 – General Botany	5.0
<input type="checkbox"/> CHM-1A – General Chemistry I	5.0
<input type="checkbox"/> CHM-1B – General Chemistry II	5.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/> MAT-25 – Pre-Calculus	4.0

Major Electives (Select 1 series 8-12 units)

<input type="checkbox"/> PHY-2A/2B – College Physics I & II	8.0
<input type="checkbox"/> PHY-4A/4B/4C – General Physics I, II, III	12.0

Recommended Major Electives (None Required)

<input type="checkbox"/> CHM-12A – Organic Chemistry I	5.0
<input type="checkbox"/> CHM-12B – Organic Chemistry II	5.0
<input type="checkbox"/> MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/> MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/> 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:

HCCD GE (see page 76) MAT-13 and MAT-25

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 62-66 UNITS

BUSINESS ADMINISTRATION 2.0

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

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/students/fa/net-price-calculator.html>

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)

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

SUBTOTAL: 28-29 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.comSM**
*Associate Degree
for Transfer*

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.
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.

BUSINESS INFORMATION WORKER

PROGRAMS

- **Certificate 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, preparation 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 taken 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/gainful-employment-certificate-programs-0>

FINANCIAL AID

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<https://www.hartnell.edu/students/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 (17 units)

<input type="checkbox"/>	BUS-50 – Introduction to PC Applications	4.0
<input type="checkbox"/>	BUS-110A – Beginning Keyboarding	1.0
	AND	
	BUS-110B – Beginning Formatting and Document Processing	1.0
<input type="checkbox"/>	ENG-102 – Composition and Reading for CTE	3.0
<input type="checkbox"/>	BUS-135 – Professional Office Skills	4.0
<input type="checkbox"/>	BUS-172 – Machine Calculations	1.0
<input type="checkbox"/>	MAT-106 – Integrated Mathematics	3.0

TOTAL: 17 UNITS

GAINFUL EMPLOYMENT INFORMATION:

See the certificate program cost and the employment outlook for graduates by clicking the link below:
<http://www.hartnell.edu/gainful-employment-certificate-programs-0>

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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) (17 units)

- BUS-50 – Introduction to PC Applications 4.0
- BUS-110A – Beginning Keyboarding 1.0

AND

- BUS-110B – Beginning Formatting and Document Processing 1.0
- ENG-102 – Composition and Reading for CTE 3.0
- BUS-135 – Professional Office Skills 4.0
- BUS-172 – Machine Calculations 1.0
- MAT-106 – Integrated Mathematics 3.0

Required Major Courses (11 units)

- BUS-136 – Personal Information Management 2.0
- BUS-150.15 – Word Processing 3.0
- BUS-173 – Filing Procedures and Records Management 3.0
- BUS-190 – Career Management 2.0
- CWE-99 – Cooperative Work Experience 1.0

TOTAL: 28 UNITS

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

BUSINESS OFFICE TECHNOLOGY

PROGRAMS

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



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

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/students/fa/net-price-calculator.html>

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.

Required Major Courses (36 units)

<input type="checkbox"/> BUS-50 – Introduction to PC Applications	4.0
<input type="checkbox"/> BUS-111 – Intermediate Office Skills	3.0
<input type="checkbox"/> BUS-135 – Professionalism Office Skills	4.0
<input type="checkbox"/> BUS-140A & B – Keyboarding Speed and Accuracy	1.0
<input type="checkbox"/> BUS-150.15 – Word Processing	3.0
<input type="checkbox"/> BUS-172- Machine Calculations and Records Management	1.0
<input type="checkbox"/> BUS-173 – Filing Procedures and Records Management	3.0
<input type="checkbox"/> BUS-175 – Business Communications	3.0
<input type="checkbox"/> BUS-177 – Proofreading and Editing Skills	3.0
<input type="checkbox"/> BUS-190 – Career Management	2.0
<input type="checkbox"/> BUS-194 – Human Relations in Business	3.0
<input type="checkbox"/> COM-1 – Introduction to Public Speaking	3.0
<input type="checkbox"/> ENG-1A – College Composition and Reading	3.0
OR	
ENG-1AX – Intensive College Composition and Reading	4.0

Recommended Major Electives (None Required)

<input type="checkbox"/> BUS-32 – Introduction to Business	3.0
--	-----

SUBTOTAL: 36 UNITS

General Education –Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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 (30 units)

- BUS-50 – Introduction to PC Applications 4.0
- BUS-110A – Beginning Keyboarding 1.0

AND

- BUS-110B – Beginning Formatting and Document Processing 1.0
- BUS-135 – Professionalism Office Skills 4.0
- BUS-150.25 – 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
- ENG-102 – Composition and Reading for CTE 3.0

Other Required Courses

- MAT-106** – Integrated Mathematics 3.0

TOTAL: 32 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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 (27 units)

<input type="checkbox"/> BUS-50 – Introduction to PC Applications	4.0
<input type="checkbox"/> BUS-111 – Intermediate Office Skills	3.0
<input type="checkbox"/> BUS-135 – Professionalism Office Skills	4.0
<input type="checkbox"/> BUS-140A & B – Keyboarding Speed and Accuracy	1.0
<input type="checkbox"/> BUS-150.15 – Word Processing	3.0
<input type="checkbox"/> BUS-172 – Business Machine Calculations	1.0
<input type="checkbox"/> BUS-173 – Filing Procedures and Records Management	3.0
<input type="checkbox"/> BUS-177 – Proofreading and Editing Skills	3.0
<input type="checkbox"/> BUS-190 – Career Management	2.0
<input type="checkbox"/> ENG-102 – Composition and Reading for CTE	3.0

Other Required Courses

<input type="checkbox"/> MAT-106** – Integrated Mathematics	3.0
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TOTAL: 30 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

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/students/fa/net-price-calculator.html>

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 hands-on 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

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

CHEMISTRY (AST.CHM)

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)

<input type="checkbox"/>	CHM-1A – General Chemistry I	5.0
<input type="checkbox"/>	CHM-1B – General Chemistry II	5.0
<input type="checkbox"/>	CHM-12A – Organic Chemistry I	5.0
<input type="checkbox"/>	CHM-12B – Organic Chemistry II	5.0
<input type="checkbox"/>	PHY-4A – General Physics/Mechanics	4.0
<input type="checkbox"/>	PHY-4B – General Physics/Electricity & Magnetism	4.0
<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0

Recommended Major Electives (None Required)

<input type="checkbox"/>	MAT-3C – Analytic Geometry and Calculus III	4.0
<input type="checkbox"/>	MAT-4 – Linear Algebra	3.0
<input type="checkbox"/>	MAT-5 – Differential Equations	3.0
<input type="checkbox"/>	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 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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 Chicana Studies Program provides organized studies in the heritage of Chicana culture and community to foster and expand a general understanding of this group. The Chicana 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 Chicana major enhances students' employment opportunities and careers in schools, community groups, governmental agencies, and the private sector.

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/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

CHICANX STUDIES (AA.CHCX)

ASSOCIATE OF ARTS

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

- demonstrate knowledge of Chicana/x 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 Chicana/x studies scholarship including major contributors who have influenced the course of study, policy and or culture.
- demonstrate knowledge of Chicana/x culture including an analysis in cultural expressions including but not limited to contemporary culture, literature or cinema.
- distinguish variations within the Chicana/x community with respect to class, gender, ethnicity, race, and sexuality.

Required Major Courses (14 units)

- | | |
|--|-----|
| <input type="checkbox"/> ETH-1 – Introduction to Ethnic Studies | 3.0 |
| <input type="checkbox"/> ETH-3 – Introduction to Chicana/x Studies | 3.0 |
| <input type="checkbox"/> ETH-4 – Chicana/x Culture | 3.0 |
| <input type="checkbox"/> SPA-1 – Elementary Spanish | 5.0 |

OR

SPA-1X – Elementary Spanish for Chicano Students 5.0

OR

SPA-1S – Elementary Spanish for Spanish Students 5.0

Major Electives (Complete 6 units)

- | | |
|---|-----|
| <input type="checkbox"/> ETH-2 – Chicana/o/x Leadership | 3.0 |
| <input type="checkbox"/> ETH-5/POL-5 – Chicano Politics | 3.0 |
| <input type="checkbox"/> ETH-6 – La Chicana | 3.0 |
| <input type="checkbox"/> ETH-7 – Chicana/o/x Theatre | 3.0 |
| <input type="checkbox"/> ETH-12 – Chicano Cinema | 3.0 |
| <input type="checkbox"/> 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 Education Plans:

HCCD GE (see page 76) *MAT-126 or higher*

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Natural Sciences | <input type="checkbox"/> Social & Behavioral Sciences | <input type="checkbox"/> Humanities |
| <input type="checkbox"/> Ethnic Groups in the US | <input type="checkbox"/> Language and Rationality | |

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

COMMUNICATION STUDIES

PROGRAM

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



DESCRIPTION

The Associate in Arts in Communication Studies for Transfer allows students to focus their major course work and required electives to meet the needs of business, interpersonal, and public communication; and to demonstrate communicative competence. A degree in Communication Studies can lead to a career (or further study) in public relations, teaching, consulting, broadcasting, law ministry, public administration or any field in which communication skills are highly valued. Upon successful completion of the Associate in Arts in Communication Studies for Transfer, a student should be able to: conceive, develop and deliver a focused, cogent, and clear presentation; explain the transactional and transformative nature of human communication; and research, organize and write a paper concerning the development, implementation, and effective use of various communication theories.

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 (AAT.COM)

ASSOCIATE IN ARTS FOR TRANSFER

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

- conceive, develop and deliver a focused, cogent, and clear oral presentation.
- explain the transactional and transformative nature of human communication.
- research, organize, and write a paper concerning the development, implementation, and effective use of various communication theories.

Required Major Courses (15 units)

<input type="checkbox"/>	COM-1 – Introduction to Public Speaking	3.0
<input type="checkbox"/>	COM-2 – Argumentation and Debate	3.0
<input type="checkbox"/>	COM-3 – Survey of Human Communication	3.0
<input type="checkbox"/>	COM-4 – Intercultural Communication	3.0
<input type="checkbox"/>	COM-8 – Interpersonal Communication	3.0

Major Electives (Complete 3 units)

<input type="checkbox"/>	ANT-2 – Introduction to Anthropology Cultural	3.0
<input type="checkbox"/>	COM-5 – Professional & Leadership Communication	3.0
<input type="checkbox"/>	ENG-2 – Critical Thinking and Writing	3.0
<input type="checkbox"/>	PSY-2 – General Psychology	3.0
<input type="checkbox"/>	SOC-1 – Introduction to Sociology	3.0

SUBTOTAL: 18 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
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*Associate Degree
for Transfer*

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.
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.

COMPUTER SCIENCE FOR TRANSFER

PROGRAM

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



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/students/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)

<input type="checkbox"/>	CSS-2A – Object Oriented Programming	4.0
<input type="checkbox"/>	CSS-2B – Data Structures and Algorithms	4.0
<input type="checkbox"/>	CSS-3 – Computer Architecture and Assembly	4.0
<input type="checkbox"/>	CSS-7 – Discrete Structures	4.0
<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/>	PHY-4A – General Physics I/Mechanics	4.0
<input type="checkbox"/>	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 82)

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



**A Degree With A
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*Associate Degree
for Transfer*

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.
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.

COMPUTER SCIENCE AND INFORMATION SYSTEMS

COMPUTER SCIENCE OPTION

PROGRAMS

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



DESCRIPTION

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.

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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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)

- | | |
|--|-----|
| <input type="checkbox"/> CSS-1 – Introduction to Computer Science and Programming Fundamentals | 4.0 |
| <input type="checkbox"/> CSS-2A – Object Oriented Programming | 4.0 |
| <input type="checkbox"/> CSS-2B – Data Structures and Algorithms | 4.0 |
| <input type="checkbox"/> CSS-3 – Computer Architecture and Assembly Language Programming | 4.0 |
| <input type="checkbox"/> CSS-7 – Discrete Structures | 4.0 |

SUBTOTAL: 20 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) *MAT-3A or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

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 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)

- | | |
|---|-----|
| <input type="checkbox"/> CSS-1 – Introduction to Computer Science and Programming | 4.0 |
| <input type="checkbox"/> CSS-2A – Object Oriented Programming | 4.0 |
| <input type="checkbox"/> CSS-2B – Data Structures Algorithms | 4.0 |
| <input type="checkbox"/> CSS-3 – Computer Architecture and Assembly Language | 4.0 |
| <input type="checkbox"/> CSS-7 – Discrete Structures | 4.0 |

Major Electives (Complete 8 units)

- | | |
|---|-----|
| <input type="checkbox"/> CSS-50 – Introduction to Networks: CCNA 1 | 4.0 |
| <input type="checkbox"/> CSS-53 – Computer Security Principles | 4.0 |
| <input type="checkbox"/> CSS-56 – Storage Management and Virtualization | 4.0 |
| <input type="checkbox"/> MAT-3B – Analytic Geometry and Calculus II | 4.0 |

Other Required Courses

- | | |
|--|-----|
| <input type="checkbox"/> ENG-101* – Intermediate Composition and Reading | 3.0 |
| OR | |
| <input type="checkbox"/> ESL-101* – Academic Writing & Reading II | 5.0 |
| <input type="checkbox"/> MAT-123** – Intermediate Algebra | 5.0 |

TOTAL: 28 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Completion of MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

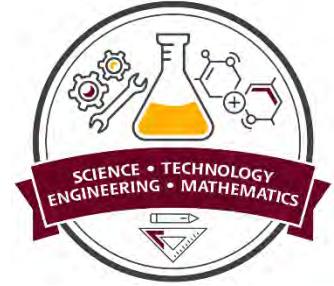
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COMPUTER SCIENCE AND INFORMATION SYSTEMS CISCO CERTIFIED NETWORK ASSOCIATE

PROGRAMS

- Certificates of Achievement



DESCRIPTION

This Cisco Certified Network Associate (CCNA) Certificate of Achievement combines all of the required courses need 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.

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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Computer Network Specialists
- Network and Computer System Administration

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 (19-20 units)

- | | |
|--|-----|
| <input type="checkbox"/> CSS-50 – Introduction to Networks: CCNA 1 | 4.0 |
| <input type="checkbox"/> CSS-51 – Switching, Routing, and Wireless Essentials: CCNA 2 | 4.0 |
| <input type="checkbox"/> CSS-52 – Enterprise Networking, Security and Automation: CCNA3 | 4.0 |
| <input type="checkbox"/> MAT-126 – Quantitative Reasoning for Personal and Professional Life | 4.0 |
| OR | |
| <input type="checkbox"/> MAT-123 – Intermediate Algebra | 5.0 |
| <input type="checkbox"/> COM-3 – Survey of Human Communication | 3.0 |
| OR | |
| <input type="checkbox"/> ENG-1A – College Composition and Reading | 3.0 |

TOTAL: 19-20 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

COMPUTER SCIENCE AND INFORMATION SYSTEMS CYBERSECURITY

PROGRAMS

- **Certificates of Achievement**

DESCRIPTION

The Cybersecurity Certificate of Achievement combines security in a networking and system administration environment to provide students with a 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.

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

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LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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)

<input type="checkbox"/>	CSS-50 – Introduction to Networks: CCNA 1	4.0
<input type="checkbox"/>	CSS-53 – Computer Security Principles	4.0
<input type="checkbox"/>	CSS-54 – Network Security Principles	4.0
<input type="checkbox"/>	CSS-55 – System and Network Administration	4.0
<input type="checkbox"/>	CSS-1 – Introduction to Computer Science and Programming	4.0

TOTAL: 20 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

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COMPUTER SCIENCE AND INFORMATION SYSTEMS

DIGITAL WEB AND MOBILE DEVELOPMENT



PROGRAMS

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

DESCRIPTION

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

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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/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/> BUS-32 – Introduction to Business	3.0
<input type="checkbox"/> CSS-25 – Multimedia Integration	3.0
<input type="checkbox"/> CSS-27 – Project Management using Microsoft Project	4.0
<input type="checkbox"/> CSS-64 – HTML 5 and CSS3 – Web Development	4.0

Major Electives A (Complete 8 units)

<input type="checkbox"/> CSS-26 – Dreamweaver	4.0
<input type="checkbox"/> CSS-74 – Wordpress for Websites	4.0
<input type="checkbox"/> CSS-76 – Android App Development Using Java	4.0
<input type="checkbox"/> CSS-86 – Adobe Animate	4.0

Major Electives B (Complete an additional 8 units)

<input type="checkbox"/> CSS-29 – Programming for Multimedia	4.0
<input type="checkbox"/> CSS-76 – Android App Development Using Java	4.0
<input type="checkbox"/> CSS-65 – Introduction to IOS App Development	4.0
<input type="checkbox"/> CSS-78 – Mobile Game Design	4.0
<input type="checkbox"/> 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 Plans:

HCCD GE (see page 76) MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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)

<input type="checkbox"/> BUS-32 – Introduction to Business	3.0
<input type="checkbox"/> CSS-25 – Multimedia Integration	3.0
<input type="checkbox"/> CSS-27 – Project Management using Microsoft Project	4.0
<input type="checkbox"/> CSS-64 – HTML 5 and CSS3 – Web Development	4.0

Major Electives (Complete 8 units)

<input type="checkbox"/> CSS-76 – Android App Development Using Java	4.0
<input type="checkbox"/> CSS-65 – Introduction IOS App Development	4.0

Other Required Courses

<input type="checkbox"/> ENG-101* – Intermediate Composition and Reading	3.0
OR	
<input type="checkbox"/> ESL-101* – Academic Writing & Reading II	5.0
<input type="checkbox"/> MAT-123** – Intermediate Algebra	5.0

TOTAL: 22 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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)

- | | |
|--|-----|
| <input type="checkbox"/> BUS-32 – Introduction to Business | 3.0 |
| <input type="checkbox"/> CSS-25 – Multimedia Integration | 3.0 |
| <input type="checkbox"/> CSS-27 – Project Management using Microsoft Project | 4.0 |
| <input type="checkbox"/> CSS-64 – HTML 5 and CSS3 – Web Development | 4.0 |

Major Electives (Complete 8 units)

- | | |
|--|-----|
| <input type="checkbox"/> CSS-26 – Dreamweaver | 4.0 |
| <input type="checkbox"/> CSS-74 – Wordpress for Websites | 4.0 |

Other Required Courses

- | | |
|--|-----|
| <input type="checkbox"/> ENG-101* – Intermediate Composition and Reading | 3.0 |
| OR | |
| <input type="checkbox"/> ESL-101* – Academic Writing & Reading II | 5.0 |
| <input type="checkbox"/> MAT-123** – Intermediate Algebra | 5.0 |

TOTAL: 22 UNITS

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

COMPUTER SCIENCE AND INFORMATION SYSTEMS TECHNICAL SUPPORT

PROGRAMS

- Certificates 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.

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/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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)

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | CSS-50 – Introduction to Networks: CCNA 1 | 4.0 |
| <input type="checkbox"/> | CSS-169 – IT Essentials | 4.0 |
| <input type="checkbox"/> | CSS-53 – Computer Security Principles | 4.0 |
| <input type="checkbox"/> | BUS-43 – Business Information System and Information Literacy | 4.0 |
| | OR | |
| <input type="checkbox"/> | CSS-57 – Introduction to UNIX/Linux Systems | 4.0 |

Other Required Courses

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | ENG-101* – Intermediate Composition and Reading | 3.0 |
| | OR | |
| <input type="checkbox"/> | ESL-101* - Academic Writing and Reading II | 5.0 |
| | OR | |
| <input type="checkbox"/> | ENG-102 – Composition and Reading for CTE | 3.0 |
| <input type="checkbox"/> | MAT-126 – Quantitative Reasoning for Personal and Professional Life | 4.0 |

TOTAL: 36 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-123 or any higher level math class fulfills this requirement.

FINANCIAL AID

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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+.

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/students/fa/net-price-calculator.html>

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

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)

<input type="checkbox"/>	CSS-1 – Introduction to Computer Science & Programming Fundamentals	4.0
<input type="checkbox"/>	CSS-50 – Introduction to Networks: CCNA 1	4.0
<input type="checkbox"/>	CSS-51 – Switching, Routing, and Wireless Essentials: CCNA 2	4.0
<input type="checkbox"/>	CSS-52 – Enterprise Networking, Security, and Automation: CCNA 3	4.0
<input type="checkbox"/>	CSS-53 – Computer Security Principles	4.0
<input type="checkbox"/>	CSS-54 – Network Security Principles	4.0
<input type="checkbox"/>	CSS-55 – Systems and Network Administration	4.0
<input type="checkbox"/>	CSS-56 – Storage Management and Virtualization	4.0
<input type="checkbox"/>	CSS-169 – IT Essentials	4.0

SUBTOTAL: 36 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 61 UNITS

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 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.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

Required Major Courses (40 units)

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

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing & Reading II	5.0
	OR	
	ENG-102 – Composition and Reading for CTE	3.0
<input type="checkbox"/>	MAT-126** – Quantitative Reasoning for Personal and Professional Life	5.0

TOTAL: 36 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Completion of MAT-123 or any higher level math class fulfills this requirement.

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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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)

<input type="checkbox"/> CMA-51 – Introduction to Construction Management and Architecture	3.0
<input type="checkbox"/> CMA-55 – Introduction to Structural Design and Codes	3.0
<input type="checkbox"/> CMA-57 – Construction Law and Contracts	3.0
<input type="checkbox"/> CMA-61 – Construction Field Practice: Layout, Foundations & Framing	4.0
<input type="checkbox"/> CMA-62 – Construction Field Practice: Exterior and Interior Finish	4.0
<input type="checkbox"/> CMA-81 – Computer Aided Drafting and Design I	3.0

Required Major Courses (Complete one emphasis 15 units)

<input type="checkbox"/> CONSTRUCTION MANAGEMENT – CMA-52, 53, 54, 56, 91	15.0
<input type="checkbox"/> ARCHITECTURE – CMA-70, 71, 72, 82, 83	15.0

Major Elective Courses (Complete 3 units from the same emphasis as above)

<input type="checkbox"/> CONSTRUCTION MANAGEMENT – CMA-63, 64, 65, 66, 84, 90, EGN-11	3.0
<input type="checkbox"/> 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) *MAT-123 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
- Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

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
- Photographer
- Publications Designer
- Web 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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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

Required Major Courses (21 units)

- | | |
|--|-----|
| <input type="checkbox"/> ART-70 – Introduction to Graphic Design/Computer Graphics | 3.0 |
| <input type="checkbox"/> ART-71 – Introduction to 2D Digital Illustration | 3.0 |
| <input type="checkbox"/> ART-72 – Introduction to Digital Arts | 3.0 |
| <input type="checkbox"/> ART-74 – Digital 3D Design and Modeling | 3.0 |
| <input type="checkbox"/> ART-76 – Introduction to 3D Digital Animation | 3.0 |
| <input type="checkbox"/> ART-77 – Introduction to Digital Video and Video Editing | 3.0 |
| <input type="checkbox"/> ART-80 – Introduction to Digital Photography and Photographic Imaging | 3.0 |

Major Electives (Complete 6 units)

- | | |
|--|-----|
| <input type="checkbox"/> ART-3 – Drawing and Composition | 3.0 |
| <input type="checkbox"/> ART-12A – Design | 3.0 |
| <input type="checkbox"/> ART-13 – Three-Dimensional Design | 3.0 |
| <input type="checkbox"/> ART-73 – Introduction to Digital Illustration for Animation | 3.0 |
| <input type="checkbox"/> ART-78 – Motion Graphics and Design Principles | 3.0 |
| <input type="checkbox"/> ART-84 – Digital Art Portfolio and Business Practices | 3.0 |
| <input type="checkbox"/> PHO-1 – Introduction to Photography | 3.0 |
| <input type="checkbox"/> 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) *MAT-126 or higher*

- Natural Sciences
 Social & Behavioral Sciences
 Humanities
 Ethnic Groups in the US
 Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

Required Major Courses (21 units)

- ART-70 – Introduction to Graphic Design/Computer Graphic 3.0
- 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)

- ART-12A – Design 3.0
- ART-13 – Three Dimensional Design 3.0
- ART-73 – Introduction to Digital Illustration Animation 3.0
- ART-78 – Motion Graphics and Design Principles 3.0
- ART-84 – Digital Art Portfolio & Business Practices 1.0-3.0
- PHO-1 – Introduction to Photography 3.0

Other Required Courses

- ENG-101* – Intermediate Composition and Reading 3.0
- OR**
- ESL-101* – Academic Writing and Reading II 3.0
- MAT-106** – Integrated Mathematics 3.0

TOTAL: 24 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

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)

<input type="checkbox"/>	ECE-1 – Principles and Practices of Teaching Young Children	3.0
<input type="checkbox"/>	ECE-2 – Child, Family, School & Community Relations	3.0
<input type="checkbox"/>	ECE-4 – Introduction to Curriculum	3.0
<input type="checkbox"/>	ECE-6 – Child Growth and Development	3.0
<input type="checkbox"/>	ECE-10 – Observation and Assessment	3.0
<input type="checkbox"/>	ECE-12 – Practicum: Field Teaching Experience	4.0
<input type="checkbox"/>	ECE-19 – Health, Safety, and Nutrition in Early Childhood	3.0
<input type="checkbox"/>	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 80)	39 units
IGETC (see page 82)	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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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 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 11, ECE 54
Infant/Toddler	Select 6 units from ECE 20, ECE 21
Special Needs	Select 6 units from ECE 26, ECE 27
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)

- | | |
|--|-----|
| <input type="checkbox"/> ECE-1 – Principles and Practices of Teaching Young Children | 3.0 |
| <input type="checkbox"/> ECE-2 – Child, Family, School & Community Relations | 3.0 |
| <input type="checkbox"/> ECE-4 – Introduction to Curriculum | 3.0 |
| <input type="checkbox"/> ECE-6 – Child Growth and Development | 3.0 |
| <input type="checkbox"/> ECE-10 – Observation and Assessment | 3.0 |
| <input type="checkbox"/> ECE-53 – Teaching in a Diverse Society | 3.0 |
| <input type="checkbox"/> ECE-19 – Health, Safety and Nutrition in Early Childhood | 3.0 |
| <input type="checkbox"/> ECE-12 – Practicum: Field Teaching Experience | 4.0 |

Major Electives (Complete 6 units)

- | | |
|---|-----|
| <input type="checkbox"/> ECE-11 – Cognitive Activities and Materials | 3.0 |
| <input type="checkbox"/> ECE-54 – Language and Early Literacy Curriculum | 3.0 |
| <input type="checkbox"/> ECE-9 – Creative Expressions and play in Early Childhood | 3.0 |
| <input type="checkbox"/> ECE-20 – Infant and toddler Development | 3.0 |
| <input type="checkbox"/> ECE-21 – Infant Toddler Group Care | 3.0 |
| <input type="checkbox"/> ECE-26 – Children with Special Needs | 3.0 |
| <input type="checkbox"/> ECE-27 – Principles and Practices in Guiding Children’s Behavior | 3.0 |
| <input type="checkbox"/> ECE-70A – Administration I: Programs in ECE | 3.0 |
| <input type="checkbox"/> ECE-70B – Advanced Administration II: | 3.0 |
| <input type="checkbox"/> ECE-71 – Adult Supervision and Mentoring in ECE Settings | 2.0 |

SUBTOTAL: 31 UNITS

General Education – Required Courses - Students must complete one of the following General Education Plans:

HCCD GE (see page 76) **MAT-126** or higher

- Natural Sciences
 Social & Behavioral Sciences
 Humanities
 Ethnic Groups in the US
 Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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 (23 units)

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

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
OR		
	ESL-101* – Academic Writing & Reading II	5.0
<input type="checkbox"/>	MAT-106** – Integrated Mathematics	3.0

TOTAL: 25 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or higher level math class fulfills this requirement.

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/students/fa/net-price-calculator.html>

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)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | ECO-1 – Principles of Macroeconomics | 3.0 |
| <input type="checkbox"/> | ECO-5 – Principles of Microeconomics | 3.0 |
| <input type="checkbox"/> | MAT-2 – Calculus for Managerial Life, & Social Science | 4.0 |
| OR | | |
| <input type="checkbox"/> | MAT-3A – Analytic Geometry and Calculus I | 4.0 |
| <input type="checkbox"/> | MAT-13 – Elementary Statistics | 4.0 |

Major Electives A (Complete 1 course 3-4 units)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | BUS-1A – Financial Accounting | 4.0 |
| <input type="checkbox"/> | BUS-1B – Managerial Accounting | 4.0 |
| <input type="checkbox"/> | BUS-43 – Business Info Systems & Info Literacy | 4.0 |
| <input type="checkbox"/> | ECO-10 – Introduction to Economics | 3.0 |
| <input type="checkbox"/> | MAT-3B – Analytic Geometry and Calculus II | 4.0 |
| <input type="checkbox"/> | MAT-16 – Finite Mathematics | 3.0 |

Major Electives B (Complete 1 course 3-4 units)

- | | | |
|--------------------------|--|---------|
| <input type="checkbox"/> | Any list A courses not already used | 3.0-4.0 |
| <input type="checkbox"/> | MAT-3C – Analytic Geometry and Calculus II | 4.0 |
| <input type="checkbox"/> | 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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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.

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/students/fa/net-price-calculator.html>

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

ELEMENTARY TEACHER EDUCATION

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)

<input type="checkbox"/> BIO-10 – General Biology	4.0
<input type="checkbox"/> COM-1 – Introduction to Public Speaking	3.0
<input type="checkbox"/> EDU-1 – Introduction to Education in a Changing World	3.0
<input type="checkbox"/> ENG-1A – College Composition and Reading	3.0
<input type="checkbox"/> ENG-1B – College Literature and Writing	3.0
<input type="checkbox"/> ENG-2 – Critical Thinking and Writing	3.0
<input type="checkbox"/> ECE-6 – Child Development	3.0
<input type="checkbox"/> GEG-10 – Geography and World Affairs	3.0
<input type="checkbox"/> GEL-1 – Physical Geology	4.0
<input type="checkbox"/> HIS-5A – World History A	3.0
<input type="checkbox"/> HIS-17A – United States History A	3.0
<input type="checkbox"/> MAT-12 – Number Systems	3.0
<input type="checkbox"/> POL-1 – American Political Institutions	3.0

Required Major Courses (Complete 1 course 4-8 units)

<input type="checkbox"/> PHY-32 – Survey of Chemistry and Physics	4.0
OR	
<input type="checkbox"/> CHM-22 – The Science of Chemistry	8.0
AND	
<input type="checkbox"/> PHY-10 – Introduction to Physics	

Major Electives (Complete 3 units)

<input type="checkbox"/> ART-10 – Art Appreciation	3.0
<input type="checkbox"/> MUS-1A – Music Appreciation-Historical Perspective	3.0
<input type="checkbox"/> 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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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.

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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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.

Required Major Courses (18 units)

<input type="checkbox"/> HES-80 – Medical Terminology	3.0
<input type="checkbox"/> MAT-106** – Integrated Mathematics	3.0
<input type="checkbox"/> ENG-102** – Composition and Reading for CTE	3.0
<input type="checkbox"/> EMT-53 – Emergency Medical Technician	9.0

TOTAL: 18 UNITS

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

**or higher level

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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

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/students/fa/net-price-calculator.html>

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

MECHANICAL/AEROSPACE/MANUFACTURING ENGINEERING TRACK

EGN 8 Statics	3
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CIVIL ENGINEERING TRACK

EGN 8 Statics	3
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ELECTRICAL ENGINEERING TRACK

EGN 6 Circuit Analysis	4
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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

REQUIRED MAJOR ELECTIVES

SELECT ONE EMPHASIS TO FOLLOW 	Units	Mechanical/ Aerospace/ Manufacturing	Civil	Electrical	Computer	General
Number of ADDITIONAL units to choose		23	22	12	15	20
<input type="checkbox"/> EGN-1L – Introduction to Engineering Lab	1	X	X	X	X	X
<input type="checkbox"/> EGN-2 – Engineering Graphics	3	X	X			X
<input type="checkbox"/> EGN-4 – Materials Science and Engineering	4	X	X			X
<input type="checkbox"/> EGN-5 – Programming and Problem-Solving in MATLAB	3			X	X	X
<input type="checkbox"/> EGN-6 – Circuit Analysis	4	X				X
<input type="checkbox"/> EGN-7L – Computer Interface with the Physical World Laboratory	1	X		X		X
<input type="checkbox"/> EGN-8 – Statics	3					X
<input type="checkbox"/> EGN-11 – Surveying	3		X			X
<input type="checkbox"/> BIO-1 – Fundamental Biological Concepts	5					X
<input type="checkbox"/> BIO-2 – General Zoology	5					X
<input type="checkbox"/> BIO-3 – General Botany	5					X
<input type="checkbox"/> CHM-1A – General Chemistry I	5	X	X	X	X	X
<input type="checkbox"/> CHM-1B – General Chemistry II	5					X
<input type="checkbox"/> CHM-12A – Organic Chemistry I	5					X
<input type="checkbox"/> CHM-12B – Organic Chemistry I	5					X
<input type="checkbox"/> PHY-4C – General Physics III/ Waves, Heat, Light, Sound, and Modern Physics	4	X	X	X	X	X
<input type="checkbox"/> MAT-3C – Analytical Geometry and Calculus III	4	X	X	X	X	X
<input type="checkbox"/> MAT-5 – Differential Equations	3	X	X	X	X	X
<input type="checkbox"/> MAT-4 – Linear Algebra	3	X	X	X	X	X
<input type="checkbox"/> CSS-1 – Intro to Computer Science & Programming Fundamentals	4					X
<input type="checkbox"/> CSS-2A – Object Oriented Programming	4			X		X
<input type="checkbox"/> CSS-2B – Data Structures and Algorithms	4			X	X	X
<input type="checkbox"/> CSS-3 – Computer Architecture and Assembly Language Programming	4				X	X
<input type="checkbox"/> CSS-7 – Discrete Structures	4				X	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 80)

33 units

IGETC for STEM (see page 82)

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**



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

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/students/fa/net-price-calculator.html>

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)

- | | |
|---|-----|
| <input type="checkbox"/> MAT-3A – Analytic Geometry and Calculus I | 4.0 |
| <input type="checkbox"/> MAT-3B – Analytic Geometry and Calculus II | 4.0 |
| <input type="checkbox"/> PHY-4A – General Physics I/Mechanics | 4.0 |
| <input type="checkbox"/> EGN-1R – Introduction to Engineering | 2.0 |
| OR | |
| EGN-1 – Introduction to Engineering | 3.0 |
| <input type="checkbox"/> ENG-1A – College Composition and Reading | 3.0 |
| OR | |
| ENG-1AX – College Composition and Reading | 4.0 |

Major Electives (Complete 7-9 units)

- | | |
|---|-----|
| <input type="checkbox"/> EGN-5 – Programming and Problem Solving in MATLAB | 3.0 |
| <input type="checkbox"/> CSS-1 – Intro to Computer Science & Programming Fundamentals | 4.0 |
| <input type="checkbox"/> CSS-2A – Object Oriented Programming | 4.0 |
| <input type="checkbox"/> CHM-1A – General Chemistry I | 5.0 |

TOTAL: 24-28 UNITS

FINANCIAL AID

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ENGLISH

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.

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>

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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

ENGLISH (AAT.ENG)

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 texts.
- 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)

- | | |
|--|-----|
| <input type="checkbox"/> ENG-1B – College Literature and Composition | 3.0 |
| <input type="checkbox"/> ENG-2 – Critical Thinking and Writings | 3.0 |

Major Electives A (Complete 9 units)

- | | |
|---|-----|
| <input type="checkbox"/> ENG-22 – Studies of Poetry | 3.0 |
| <input type="checkbox"/> ENG-24 – The Short Story | 3.0 |
| <input type="checkbox"/> ENG-31 – Beginning Creative Writing | 3.0 |
| <input type="checkbox"/> ENG-44A – World Literature I | 3.0 |
| <input type="checkbox"/> ENG-44B – World Literature II | 3.0 |
| <input type="checkbox"/> ENG-46A – Survey of British Literature I | 3.0 |
| <input type="checkbox"/> ENG-46B – Survey of British Literature II | 3.0 |
| <input type="checkbox"/> ENG-47A – Survey of American Literature I | 3.0 |
| <input type="checkbox"/> ENG-47B – Survey of American Literature II | 3.0 |

Major Electives B (Complete 3 units)

- | | |
|---|-----|
| <input type="checkbox"/> ENG-17 – The Contemporary Shakespeare | 3.0 |
| <input type="checkbox"/> ENG-26 – Chicana Literature | 3.0 |
| <input type="checkbox"/> ENG-41 – Art of Steinbeck | 3.0 |
| <input type="checkbox"/> ENG-48 – Introduction to Children’s Literature | 3.0 |

SUBTOTAL: 18 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

- | | |
|-----------------------------|-----------------|
| CSU-GE (see page 80) | 39 units |
| IGETC (see page 82) | 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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.

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

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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)

<input type="checkbox"/>	TAC-50 – Introduction to Film: the Classics to the 1960s	3.0
<input type="checkbox"/>	TAC-51 – Television Studio Production	3.0
OR		
	TAC-54 – Video Production Lab – Single Camera	3.0
<input type="checkbox"/>	TAC-57 – Introduction to Electronic Media	3.0
<input type="checkbox"/>	TAC-58 – Introduction to Media Writing	3.0
<input type="checkbox"/>	TAC-59 – Beginning Audio Production	3.0
<input type="checkbox"/>	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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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 WITH AN AREA OF EMPHASIS

Ethnic Groups in the US / Social and Behavioral Sciences

PROGRAMS

- Associate of Arts (A.A.)



DESCRIPTION

The General Studies with an Area of Emphasis program, developed by the Counseling Discipline, is designed to meet the needs of students interested in graduating with an Associate level college degree by studying specific related disciplines of academic subjects (**Ethnic Groups in the US / Social and Behavioral Sciences**).

The degree prepares the student for the following:

- a broad range of educational outcomes including reasoning skills, general education, basic skills, mathematical skills, communication skills and intercultural understandings desired by employers and required in a variety of entry level professional careers and or promotional opportunities
- the completion of a major leading to a two-year college degree
- a solid beginning in the transfer planning process through careful educational planning with a counselor

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

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

GENERAL STUDIES WITH AN AREA OF EMPHASIS

Ethnic Groups in the US / Social and Behavioral Sciences

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

CHOOSE A SINGLE AREA OF EMPHASIS: Complete 18 units in one of the areas of emphasis listed below:

<input type="checkbox"/> Ethnic Groups in the US <input type="checkbox"/> Social and Behavioral Science	
--	--

Areas of Emphasis: Ethnic Groups in the United States (AA.GSE)

Courses in the ethnic groups are those that study important themes and issues in United States history, society and culture. Courses will address the theoretical and analytical issues relevant to understanding race, culture and ethnicity in our society. Students will develop a framework for better understanding one’s particular cultural/historical identity in our society.

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.

REQUIRED MAJOR COURSES

<input type="checkbox"/> Addiction Studies: AOD 4
<input type="checkbox"/> Anthropology: ANT 10
<input type="checkbox"/> Communications: COM 4
<input type="checkbox"/> Early Childhood Education: ECE 53
<input type="checkbox"/> Education: EDU 1
<input type="checkbox"/> English: ENG-1A Multicultural Perspective, ENG 1B Multicultural Perspective, 26
<input type="checkbox"/> Ethnic Studies: ETH 1, 2, 3, 4, 5, 6, 7, 12
<input type="checkbox"/> Health Education: HED 6
<input type="checkbox"/> Health Sciences: HES 2
<input type="checkbox"/> History: HIS 10, 40, 46A, 46B, 49A, 49B
<input type="checkbox"/> Music: MUS 5, 6, 7, 8
<input type="checkbox"/> Political Science: POL 5
<input type="checkbox"/> Sociology: SOC 15, 20, 30, 42
<input type="checkbox"/> Social Justice Studies: SJS 20, 22
<input type="checkbox"/> Theater Arts and Cinema: TAC 3, 7, 23

<input type="checkbox"/> Areas of Emphasis: Social and Behavioral Sciences (AA.GSS)	
Courses in the social and behavioral sciences are those that focus on people as members of society. Courses will stimulate critical thinking about the ways people act and have acted in response to their societies and will promote appreciation of how societies and social subgroups operate. Students will develop an awareness of the method of inquiry used by the social and behavioral sciences.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Addiction Studies: AOD 1
<input type="checkbox"/>	Administrative Justice: ADJ 1, 51
<input type="checkbox"/>	Agriculture: ABT 53
<input type="checkbox"/>	Anthropology: ANT 1, 2, 10, 20
<input type="checkbox"/>	Business: BUS 32
<input type="checkbox"/>	Communication Studies: COM 4
<input type="checkbox"/>	Early Childhood Education: ECE 2, 6
<input type="checkbox"/>	Economics: ECO 1, 5, 10
<input type="checkbox"/>	Ethnic Studies: ETH 1, 2, 3, 4, 5, 6, 12
<input type="checkbox"/>	Geography: GEG 1, 10
<input type="checkbox"/>	Health Education: HED 2, 7
<input type="checkbox"/>	Health Science: HES 1
<input type="checkbox"/>	History: HIS 4A, 4B, 5A, 5B, 6, 10, 17A, 17B, 40, 46A, 46B, 47, 49A, 49B
<input type="checkbox"/>	Nursing: NRN/NVN 70
<input type="checkbox"/>	Philosophy: PHL 2, 10, 15
<input type="checkbox"/>	Physical Education Theory: PETH-5
<input type="checkbox"/>	Political Science: POL 1, 2, 3, 5, 6
<input type="checkbox"/>	Psychology: PSY 2, 6, 9, 10, 12, 14, 15, 22, 25, 33, 41, 42
<input type="checkbox"/>	Social Justice Studies: SJS 20, 22
<input type="checkbox"/>	Sociology: SOC 1, 5, 20, 41, 42
<input type="checkbox"/>	Theatre & Cinema: TAC 7, 23

SUBTOTAL: 18 UNITS

General Education – Required Courses MAT-126 or higher

Students must complete one of the following General Education Plans: HCCD GE (see page 76)

Ethnic Groups in the US Humanities Language and Rationality

Natural Sciences Social & Behavioral Sciences

SUBTOTAL: 21 UNITS

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

TOTAL: 60 UNITS

GENERAL STUDIES WITH AN AREA OF EMPHASIS

Humanities / Language and Rationality



PROGRAMS

- **Associate of Arts (A.A.)**

DESCRIPTION

The General Studies with an Area of Emphasis program, developed by the Counseling Discipline, is designed to meet the needs of students interested in graduating with an Associate level college degree by studying specific related disciplines of academic subjects (**Humanities or Language and Rationality**).

The degree prepares the student for the following:

- a broad range of educational outcomes including reasoning skills, general education, basic skills, mathematical skills, communication skills and intercultural understandings desired by employers and required in a variety of entry level professional careers and or promotional opportunities
- the completion of a major leading to a two-year college degree
- a solid beginning in the transfer planning process through careful educational planning with a counselor

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

TRANSFER PREPARATION

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TRANSFER RESOURCES

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GENERAL STUDIES WITH AN AREA OF EMPHASIS

Humanities / Language and Rationality

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

CHOOSE A SINGLE AREA OF EMPHASIS: Complete 18 units in one of the areas of emphasis listed below:

- | | |
|--|--|
| <input type="checkbox"/> Humanities
<input type="checkbox"/> Language and Rationality | |
|--|--|

Areas of Emphasis: Humanities (AA.GSH)

Courses in the humanities are those that study the cultural activities and artistic expressions of human beings. Students will develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creations and develop aesthetic understanding and an ability to make value judgments.

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.

REQUIRED MAJOR COURSES

- | | |
|--------------------------|---|
| <input type="checkbox"/> | American Sign Language: ASL 1, 2, 3 |
| <input type="checkbox"/> | Anthropology: ANT 2, 20 |
| <input type="checkbox"/> | Art: ART 1A, 1B, 3, 10, 12A, 15A, 15B, 19, 70, 72, 80 |
| <input type="checkbox"/> | English: ENG 1B, 17, 22, 24, 26, 31, 32, 33, 41, 44A, 44B, 46A, 46B, 47A, 47B |
| <input type="checkbox"/> | Ethnic Studies: ETH 6, 7, 12 |
| <input type="checkbox"/> | History: HIS 40, 47, 55 |
| <input type="checkbox"/> | Music: MUS 1A, 2, 5, 6, 7, 8, 20, 21, 23.1, 23.2, 23.3, 23.4, 23.5, 25, 26, 42, 43, 46, 47, 48, 49 |
| <input type="checkbox"/> | Philosophy: PHL 2, 10 |
| <input type="checkbox"/> | Photography: PHO 1, 2, 4 |
| <input type="checkbox"/> | Spanish: SPA 1, 1S, 1X, 2, 2S, 2X, 3, 3S, 4, 4S |
| <input type="checkbox"/> | Theatre and Cinema: TAC 1, 2, 3, 7, 20, 21, 23, 24, 25, 26, 29, 40, 50, 53 |

CON'T OF GENERAL STUDIES WITH AN AREA OF EMPHASIS

Humanities / Language and Rationality

<input type="checkbox"/> Areas of Emphasis: Language and Rationality (AA.GSL)	
Courses in language and rationality are those that study English expository writing and composition, communication, and analytical thinking. Courses include oral communication, mathematics, logic, statistics, computer languages and related disciplines. Students will develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication in whatever symbol system the students used.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	American Sign Language: ASL 1, 2, 3
<input type="checkbox"/>	Business: BUS 1A, 43
<input type="checkbox"/>	Communications: COM 1, 2, 3, 4, 5, 8
<input type="checkbox"/>	Computer Science: CSS 1, 2A, 2B, 3, 4, 123
<input type="checkbox"/>	Counseling: COU 1, 23, 27
<input type="checkbox"/>	English: ENG 1B, ENG 1B Multicultural Perspective, 2
<input type="checkbox"/>	Library: LIB 2, 5, 6, 7
<input type="checkbox"/>	Mathematics: MAT 2, 3A, 3B, 3C, 4, 5, 7, 10, 12, 13, 16, 18, 24, 25, 27, 121, 123, 126
<input type="checkbox"/>	Philosophy: PHL 15
<input type="checkbox"/>	Spanish: SPA 1, 1S, 1X, 2, 2S, 2X, 3, 3S, 4, 4S

SUBTOTAL: 18 UNITS

General Education – Required Courses MAT-126 or higher

Students must complete one of the following General Education Plans: HCCD GE (see page 76)

- Ethnic Groups in the US Humanities Language and Rationality
- Natural Sciences Social & Behavioral Sciences

SUBTOTAL: 21 UNITS

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

TOTAL: 60 UNITS

GENERAL STUDIES WITH AN AREA OF EMPHASIS

Natural Sciences

PROGRAMS

- Associate of Arts (A.A.)



DESCRIPTION

The General Studies with an Area of Emphasis program, developed by the Counseling Discipline, is designed to meet the needs of students interested in graduating with an Associate level college degree by studying specific related disciplines of academic subjects **(Natural Sciences)**.

The degree prepares the student for the following:

- a broad range of educational outcomes including reasoning skills, general education, basic skills, mathematical skills, communication skills and intercultural understandings desired by employers and required in a variety of entry level professional careers and or promotional opportunities
- the completion of a major leading to a two-year college degree
- a solid beginning in the transfer planning process through careful educational planning with a counselor

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.

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

GENERAL STUDIES WITH AN AREA OF EMPHASIS

Natural Sciences

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

CHOOSE A SINGLE AREA OF EMPHASIS: Complete 18 units in one of the areas of emphasis listed below:

<input type="checkbox"/> Natural Sciences	
--	--

Areas of Emphasis: Natural Sciences (AA.GSN)

Courses in natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Students will develop an appreciation and understand of the scientific method and an understanding of the relationships between science and other human activities.

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.

<input type="checkbox"/>	Agriculture: ABT 90, 92
<input type="checkbox"/>	Anthropology: ANT 1
<input type="checkbox"/>	Astronomy: AST 1, 1L
<input type="checkbox"/>	Biology: BIO 1, 2, 3, 5, 6, 6L, 10, 11, 12, 13, 18, 20, 27, 30, 42, 47, 48, 48L
<input type="checkbox"/>	Chemistry: CHM 1A, 1B, 12A, 12B, 22, 23, 60
<input type="checkbox"/>	Geography: GEG 1
<input type="checkbox"/>	Geology: GEL 1, 2, 6, 25
<input type="checkbox"/>	Meteorology: MET 1
<input type="checkbox"/>	Oceanography: OCN 1
<input type="checkbox"/>	Physics: PHY 2A, 2B, 4A, 4B, 4C, 10, 32

SUBTOTAL: 18 UNITS

General Education – Required Courses MAT-126 or higher

Students must complete one of the following General Education Plans: HCCD GE (see page 76)

- Ethnic Groups in the US
 Humanities
 Language and Rationality
 Natural Sciences
 Social & Behavioral Sciences

SUBTOTAL: 21 UNITS

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

TOTAL: 60 UNITS

GEOLOGY

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Aerial/Scientific Photographer
- Agricultural Engineer
- Architect
- Computer Analyst
- Economic Geologist
- Environmental Lawyer
- Forest Ranger
- Geochemist
- Geologist
- Hydrologist
- Laboratory Technician
- Landscape Manager
- Marine Advisor
- Mathematician
- Soil Scientist
- Surveyor
- Pollution Control Specialist

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/students/fa/net-price-calculator.html>

GEOLOGY (AST.GEL)

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)

<input type="checkbox"/> GEL-1 – Physical Geology	4.0
<input type="checkbox"/> GEL-6 – History of the Earth	4.0
<input type="checkbox"/> CHM-1A – General Chemistry I	5.0
<input type="checkbox"/> CHM-1B – General Chemistry II	5.0
<input type="checkbox"/> MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/> 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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.comSM**
*Associate Degree
for Transfer*

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.
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**



**HARTNELL
COLLEGE**

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, pre-algebra, 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

FOR MORE INFORMATION

CALL (831) 770-7070

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
- 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

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

HISTORY (AAT.HIS)

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)

- | | |
|---|-----|
| <input type="checkbox"/> HIS-17A – United State History A | 3.0 |
| <input type="checkbox"/> HIS-17B – United State History B | 3.0 |

Major Electives A (Complete 6 units)

- | | |
|--|-----|
| <input type="checkbox"/> HIS-4A – Western Civilization A | 3.0 |
| OR | |
| HIS-5A – World History A | 3.0 |
| <input type="checkbox"/> HIS-4B – Western Civilization B | 3.0 |
| OR | |
| HIS-5B – World History B | 3.0 |

Major Electives B (Complete 6 units)

- | | |
|---|-----|
| <input type="checkbox"/> 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 |
| <input type="checkbox"/> HIS-6 – History Mexico | 3.0 |
| <input type="checkbox"/> HIS-10 – History of California | 3.0 |
| <input type="checkbox"/> HIS-40 – History of Women in the United States | 3.0 |
| <input type="checkbox"/> HIS-46A – Race and Ethnicity in American History A | 3.0 |
| <input type="checkbox"/> HIS-46B – Race and Ethnicity in American History B | 3.0 |
| <input type="checkbox"/> HIS-47 – Religions of the World | 3.0 |
| <input type="checkbox"/> HIS-49A – Chicano History A | 3.0 |
| <input type="checkbox"/> HIS-49B – Chicano History B | 3.0 |
| <input type="checkbox"/> HIS-55 – U.S. History through Film | 3.0 |

SUBTOTAL: 18 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

- | | |
|-----------------------------|-----------------|
| CSU-GE (see page 80) | 39 units |
| IGETC (see page 82) | 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



**A Degree With A
Guarantee.comSM**
*Associate Degree
for Transfer*

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.
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.

KINESIOLOGY

PROGRAMS

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



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:

- 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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

KINESIOLOGY (AAT.KIN)

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)

<input type="checkbox"/> BIO-5 – Human Anatomy	4.0
<input type="checkbox"/> BIO-6 – Introductory Physiology	3.0
<input type="checkbox"/> BIO-6L – Physiology Lab	2.0
<input type="checkbox"/> 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.

<input type="checkbox"/> AQUATICS – PEAC-42, 44, 61, 68	1.5
<input type="checkbox"/> COMBATIVES – PEAC-56	2.0
<input type="checkbox"/> FITNESS – PEAC-32, 36, 40, 43, 46, 47, 49, 50, 51,66, 69	0.5-2.0
<input type="checkbox"/> INDIVIDUAL SPORTS – PEAC-58, 59, 64	1.0-1.5
<input type="checkbox"/> TEAM SPORT – PEAC-41, 52, 55, 70,72	1.5

Major Electives (Complete 7-8 units)

<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/> CHM-1A – General Chemistry	5.0
<input type="checkbox"/> HED-55 – Health Education – Advanced First Aid	3.0
<input type="checkbox"/> PHY-2A – College Physics I	4.0
OR	
<input type="checkbox"/> PHY-4A – General Physics/Mechanics I	4.0

SUBTOTAL: 22-23 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
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*Associate Degree
for Transfer*

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.
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.

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 health.
- 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)
 - PEAC – 58, 59
- AQUATIC ACTIVITIES
 - PEAC – 42, 44, 61, 62, 63, 68
- TEAM ACTIVITIES
 - PEAC – 27, 40, 41, 52, 55, 56, 70, 72, 74
 - PEIN – 17, 19, 20, 21, 22, 23, 24, 25, 26
- FITNESS ACTIVITIES
 - 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) MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
- Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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.

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/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Banking
- Corporate Legal Departments
- Law Offices
- Government
- Finance
- Insurance
- Other Legal Service Providers
- Politics
- Real Estate

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)

<input type="checkbox"/>	PHL-10 – Introduction to Ethics	3.0
<input type="checkbox"/>	COM-1 – Introduction to Public Speaking	3.0
	OR	
	COM-2 – Argumentation or Debate	3.0
<input type="checkbox"/>	ENG-1A – College Composition and Reading	3.0
	OR	
	ENG-1AX – Intensive College Composition and Reading	4.0
<input type="checkbox"/>	ENG-2 – Critical Thinking and Writing	3.0
<input type="checkbox"/>	MAT-13 – Introduction to Statistics	4.0
<input type="checkbox"/>	HIS-17A – United States History A	3.0
	OR	
	HIS-17B – United States History B	3.0
<input type="checkbox"/>	POL-1 – American Political Institutions	3.0

Major Electives (Complete 2 courses from 2 of the areas listed below – 6 units)

Administration of Justice

<input type="checkbox"/>	ADJ-3 – Concepts of Criminal Law	3.0
	OR	
	ADJ-4 – Criminal Evidence	3.0
	OR	
	ADJ-5 – Criminal Court Process	3.0

Business

<input type="checkbox"/>	BUS-18 – Legal Environment of Business	3.0
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Economics

<input type="checkbox"/>	ECO-1 – Principles of Microeconomics	3.0
	OR	
	ECO-5 – Principles of Macroeconomics	3.0

Public Policy

<input type="checkbox"/>	SJS-20 – Introduction to Social Justice	3.0
<input type="checkbox"/>	SOC-30 – Sociology of Latina/Latino in the US	3.0

College Success

<input type="checkbox"/>	COU-1 – Student Success Seminar	3.0
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Public Policy

<input type="checkbox"/>	LAW-42 – Law and Public Service	3.0
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SUBTOTAL: 28-29 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80)	39 units
IGETC (see page 82)	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.



**A Degree With A
Guarantee.comSM**
Associate Degree
for Transfer

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.
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

LIBERAL ARTS WITH AN AREA OF EMPHASIS

Humanities / Languages and Literature



PROGRAMS

- Associate of Arts (A.A.)

DESCRIPTION

This degree is designed for transfer students pursuing an area of study requiring only introductory lower-division major preparation courses within a broader liberal arts breadth pattern and transferring to a California State University (CSU), University of California (UC).

This degree represents only 8 of the 26 general areas of study identified in "Exploring Majors" on the www.assist.org transfer web site. These 8 general areas of emphasis are outlined below. Selecting courses from these general areas will prepare students to transfer to a variety of majors. This degree is an interdisciplinary approach allowing students to meet their individual transfer goals and lower division CSU-GE breadth or UC/CSU IGETC patterns.

Undecided students and those pursuing one of the other areas of study requiring a specific sequence or pattern of courses are encouraged to identify a major area of study as early as possible and follow requirements to the four-year university in consultation with a Hartnell College counselor. Those 18 other areas not included in this degree are: Agricultural Sciences, Architecture and Environmental Design, Art and Design, Biological Sciences, Business and Economics, Chemistry, Communications, Computer Science, Engineering, Environmental Studies and Sciences, Health and Physical Education, History, Mathematics, Media/Film and Television, Performing Arts, Physical Sciences, Physics, and Teacher Education.

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 WITH AN AREA OF EMPHASIS

Humanities / Languages and Literature

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

1. Choose the General Education pattern related to your educational goal:	
CSU-GE (see page 80)	39 units
IGETC (see page 82)	34-37 units
2. Choose a SINGLE Area of Emphasis listed below. For the 18 units required, select courses from at least two disciplines and from one of the disciplines, select at least two courses. Students can double count General Education courses with area of emphasis.	18 units
3. Include a 3-unit Hartnell College Ethnic Groups in the United States course.	
4. Complete any elective necessary to total 60 transferable units required by the universities.	

Areas of Emphasis: Humanities (AA.LAHU)

The humanities include, but are not limited to, history; literature; philosophy and ethics; foreign languages and cultures; linguistics; jurisprudence or philosophy of law; archaeology; comparative religion; the history, theory, and criticism of the arts; and those aspects of the social sciences (anthropology, sociology, psychology, political science, government, and economics) that use historical and interpretive rather than quantitative methods. The humanities enable us to reflect upon our lives and ask fundamental questions of value, purpose, and meaning in a rigorous and systematic way.

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.

REQUIRED MAJOR COURSES

<input type="checkbox"/>	American Sign Language: ASL 3
<input type="checkbox"/>	Anthropology: ANT 2
<input type="checkbox"/>	Art: ART 1A, 1B, 3, 12A, 19
<input type="checkbox"/>	English: ENG 17, 22, 24, 31, 41, 44A, 44B, 46A, 46B, 47A, 47B
<input type="checkbox"/>	Geography: GEG 1, 10
<input type="checkbox"/>	History: HIS 4A, 4B, 5A, 5B, 17A, 17B, 40, 47
<input type="checkbox"/>	Library Instruction: LIB 2, 7
<input type="checkbox"/>	Philosophy: PHL 2, 10, 15
<input type="checkbox"/>	Spanish: 3, 3S, 4, 4S
<input type="checkbox"/>	Theatre Arts and Cinema: TAC 1, 2, 3, 50

CON'T OF LIBERAL ARTS WITH AN AREA OF EMPHASIS

Humanities / Languages and Literature

<input type="checkbox"/> Areas of Emphasis: Languages and Literature (AA.LAL)	
The study of languages and literature includes the history of literature, the geographical and cultural regions of language and writing, the methods and theories of literary and cultural analysis, and training in creative and critical writing.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	American Sign Language: ASL 1, 2, 3
<input type="checkbox"/>	English: ENG 17, 22, 24, 31, 41, 44A, 44B, 46A, 46B, 47A, 47B
<input type="checkbox"/>	Spanish: SPA 1, 1S, 1X, 2, 2S, 2X, 3, 3S, 4, 4S

SUBTOTAL: 18 UNITS

General Education – Required Courses *MAT-123 or higher*

Students must complete one of the following General Education Plans:

CSU-GE (*see page 80*) **39 units**

IGETC (*see page 82*) **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

LIBERAL ARTS WITH AN AREA OF EMPHASIS

Psychology



PROGRAMS

- Associate of Arts (A.A.)

DESCRIPTION

This degree is designed for transfer students pursuing an area of study requiring only introductory lower-division major preparation courses within a broader liberal arts breadth pattern and transferring to a California State University (CSU), University of California (UC).

This degree represents only 8 of the 26 general areas of study identified in "Exploring Majors" on the www.assist.org transfer web site. These 8 general areas of emphasis are outlined below. Selecting courses from these general areas will prepare students to transfer to a variety of majors. This degree is an interdisciplinary approach allowing students to meet their individual transfer goals and lower division CSU-GE breadth or UC/CSU IGETC patterns.

Undecided students and those pursuing one of the other areas of study requiring a specific sequence or pattern of courses are encouraged to identify a major area of study as early as possible and follow requirements to the four-year university in consultation with a Hartnell College counselor. Those 18 other areas not included in this degree are: Agricultural Sciences, Architecture and Environmental Design, Art and Design, Biological Sciences, Business and Economics, Chemistry, Communications, Computer Science, Engineering, Environmental Studies and Sciences, Health and Physical Education, History, Mathematics, Media/Film and Television, Performing Arts, Physical Sciences, Physics, and Teacher Education.

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](http://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/students/fa/net-price-calculator.html>

LIBERAL ARTS WITH AN AREA OF EMPHASIS

Psychology

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

1. Choose the General Education pattern related to your educational goal:	
CSU-GE (see page 80)	39 units
IGETC (see page 82)	34-37 units
2. Choose a SINGLE Area of Emphasis listed below. For the 18 units required, select courses from at least two disciplines and from one of the disciplines, select at least two courses. Students can double count General Education courses with area of emphasis.	18 units
3. Include a 3-unit Hartnell College Ethnic Groups in the United States course.	
4. Complete any elective necessary to total 60 transferable units required by the universities.	

<input type="checkbox"/> Areas of Emphasis: Psychology (AA.LAP)	
Psychology is the study of human behavior. Psychologists study the biological, physiological and genetic causes of behavior, as well as the emotional, social, and developmental factors involved.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Anthropology: ANT 1, 2
<input type="checkbox"/>	Biology: BIO 1, 5, 10, 11, 12, 42
<input type="checkbox"/>	Mathematics: MAT 2, 13, 18
<input type="checkbox"/>	Psychology: PSY 2, 6, 10, 12, 14, 15, 22, 25, 33
<input type="checkbox"/>	Sociology: SOC 1, 5,

SUBTOTAL: 18 UNITS

General Education – Required Courses MAT-123 or higher

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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

LIBERAL ARTS WITH AN AREA OF EMPHASIS

Anthropology/Culture and Society/Philosophy
Political Science/Sociology and Social Sciences



PROGRAMS

- **Associate of Arts (A.A.)**

DESCRIPTION

This degree is designed for transfer students pursuing an area of study requiring only introductory lower-division major preparation courses within a broader liberal arts breadth pattern and transferring to a California State University (CSU), University of California (UC).

This degree represents only 8 of the 26 general areas of study identified in “Exploring Majors” on the www.assist.org transfer web site. These 8 general areas of emphasis are outlined below. Selecting courses from these general areas will prepare students to transfer to a variety of majors. This degree is an interdisciplinary approach allowing students to meet their individual transfer goals and lower division CSU-GE breadth or UC/CSU IGETC patterns.

Undecided students and those pursuing one of the other areas of study requiring a specific sequence or pattern of courses are encouraged to identify a major area of study as early as possible and follow requirements to the four-year university in consultation with a Hartnell College counselor. Those 18 other areas not included in this degree are: Agricultural Sciences, Architecture and Environmental Design, Art and Design, Biological Sciences, Business and Economics, Chemistry, Communications, Computer Science, Engineering, Environmental Studies and Sciences, Health and Physical Education, History, Mathematics, Media/Film and Television, Performing Arts, Physical Sciences, Physics, and Teacher Education.

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

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

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

LIBERAL ARTS WITH AN AREA OF EMPHASIS

Anthropology/Culture and Society/Philosophy/Political Science/Sociology and Social Sciences

ASSOCIATE OF ARTS

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

- read, write, speak and verbally comprehend at a college level.
- define information needs, access information efficiently and effectively, evaluate information critically, and use information ethically.
- use quantitative and logical reasoning to analyze information evaluate ideas and solve problems.
- understand and respect the cultural, economic, social, political, biological and interdependence of global life.
- acquire an appreciation in and involvement in the creation or performance of the work of fine arts/music culture.

1. Choose the General Education pattern related to your educational goal:	
CSU-GE (see page 80)	39 units
IGETC (see page 82)	34-37 units
2. Choose a SINGLE Area of Emphasis listed below. For the 18 units required, select courses from at least two disciplines and from one of the disciplines, select at least two courses. Students can double count General Education courses with area of emphasis.	18 units
3. Include a 3-unit Hartnell College Ethnic Groups in the United States course.	
4. Complete any elective necessary to total 60 transferable units required by the universities.	

Areas of Emphasis: Anthropology (AA.LAA)

Anthropology is the study of humans and human societies. Branches of anthropology include cultural anthropology, physical anthropology, linguistic anthropology, and archaeology.

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.

REQUIRED MAJOR COURSES

<input type="checkbox"/>	Agriculture Business Technology: ABT 90
<input type="checkbox"/>	Anthropology: ANT 1, 2, 10, 20
<input type="checkbox"/>	Geography: GEG 1
<input type="checkbox"/>	Geology: GEL 2
<input type="checkbox"/>	Library Instruction: LIB 2, 6, 7
<input type="checkbox"/>	Mathematics: MAT 13, 18
<input type="checkbox"/>	Psychology: PSY 2
<input type="checkbox"/>	Sociology: SOC 1

CON'T OF LIBERAL ARTS WITH AN AREA OF EMPHASIS

Anthropology/Culture and Society/Philosophy/Political Science/Sociology and Social Science

<input type="checkbox"/> Areas of Emphasis: Culture and Society (AA.LACS)	
The study of the diversity of human cultures is an inter-disciplinary activity. Cultural and ethnic study includes aspects of history, language, literature, sociology, archaeology, art and art history, and other humanities and social sciences.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Administration of Justice: ADJ 2
<input type="checkbox"/>	Anthropology: ANT 2
<input type="checkbox"/>	American Sign Language: ASL 1, 2
<input type="checkbox"/>	Art: ART 1A, 1B
<input type="checkbox"/>	Communication: COM 4
<input type="checkbox"/>	Early Childhood Education: ECE 2, 6, 53
<input type="checkbox"/>	Education: EDU 1
<input type="checkbox"/>	Ethnic Studies: ETH 3, 4, 6, 7, 12
<input type="checkbox"/>	Geography: GEG 10
<input type="checkbox"/>	Health Education: HED 6
<input type="checkbox"/>	Mathematics: MAT 2, 10, 12, 13, 18
<input type="checkbox"/>	Psychology: PSY 2, 25
<input type="checkbox"/>	Spanish: SPA 1, 1S, 1X, 2, 2S, 2X
<input type="checkbox"/>	Social Justice Studies: SJS 20,22
<input type="checkbox"/>	Sociology: SOC 1, 5, 15, 20, 30
<input type="checkbox"/>	Theater: TAC 7, 23
<input type="checkbox"/> Areas of Emphasis: Philosophy (AA.LPH)	
Philosophy is a quest for a comprehensive understanding of human existence. The objective of philosophy is to consider the rational justification of logical inferences, human values, criteria for establishing the claims of knowledge and certainly, and interpretations of the nature of reality.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Philosophy: PHL 2, 10, 15
<input type="checkbox"/>	History: HIS 4A, 4B, 5A, 5B, 47
<input type="checkbox"/>	Library Instruction: LIB 2, 6, 7
<input type="checkbox"/>	Mathematics: MAT 2, 10, 13, 18

CON'T OF LIBERAL ARTS WITH AN AREA OF EMPHASIS

Anthropology/Culture and Society/Philosophy/Political Science/Sociology and Social Science

<input type="checkbox"/> Areas of Emphasis: Political Science (AA.LAPS)	
Political Science is a social science concerned with the description and analysis of political, and especially governmental, institutions and processes. Increasingly, the emphasis is being 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 policy problems scientifically.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Administration of Justice: ADJ 1, 2, 3, 25
<input type="checkbox"/>	Economics: ECO 1, 5, 10
<input type="checkbox"/>	Health Services: HES 1, 2
<input type="checkbox"/>	History: HIS 4A, 4B, 5A, 5B, 17A, 17B
<input type="checkbox"/>	Library Instruction: LIB 2, 6, 7
<input type="checkbox"/>	Pathway to Law: LAW 41, 42
<input type="checkbox"/>	Mathematics: MAT 13, 18, 2
<input type="checkbox"/>	Political Science: POL 1, 2, 3, 5, 6

<input type="checkbox"/> Areas of Emphasis: Sociology and Social Sciences (AA.LAS)	
Social Sciences refer to any discipline or branch of science that deals with the social and cultural aspects of human behavior. The Social Sciences generally include Economics, Political Science, Sociology, and History, and may include Cultural Anthropology, Geography, Psychology, and Social Psychology.	
<i>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.</i>	
REQUIRED MAJOR COURSES	
<input type="checkbox"/>	Administration of Justice: ADJ 51
<input type="checkbox"/>	Anthropology: ANT 1, 2
<input type="checkbox"/>	Economics: ECO 1, 5, 10
<input type="checkbox"/>	Early Childhood Education: ECE 2, 6
<input type="checkbox"/>	Geography: GEG 1, 10
<input type="checkbox"/>	Library Instruction: LIB 2, 6, 7
<input type="checkbox"/>	Mathematics: MAT 2, 13, 18
<input type="checkbox"/>	Psychology: PSY 2, 6
<input type="checkbox"/>	Sociology: SOC 1, 5, 41, 42

SUBTOTAL: 18 UNITS

General Education – Required Courses MAT-123 or higher

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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

MANUFACTURING TECHNOLOGY

PROGRAM

- Associate of Science (A.S.)



DESCRIPTION

The Manufacturing Technology program is designed to prepare the student for an entry level position in the workforce and to provide continuing education. It focuses on fabrication of products based on industrial blueprints and/or product specifications in industrial technology. The program will provide students with a broad range of skills including industrial safety, fabrication, hydraulics and pneumatics, industrial electricity, basic machining, and blueprint reading. Students completing the program will have the manufacturing skills to solve technical challenges and work in the production trades.

The Associate of Science in Manufacturing Technology is a Career Technical Education degree with the goal of preparing students for entry level positions in the manufacturing workforce. These opportunities include the fields of manufacturing, fabrication, and maintenance, and some examples of available careers are Industrial Technicians, Machine Tool Operators, and Machine Tool Programmers. In the college's region there is currently a significant gap between the annual demand for a manufacturing workforce and the annual supply.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Basic Machinist
- Hydraulics Pneumatics Technician
- Industrial Electricity Technician
- Maintenance Technician
- Metal Fabricator

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/students/fa/net-price-calculator.html>

MANUFACTURING TECHNOLOGY (AS.MFGT)

ASSOCIATE OF SCIENCE

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

- demonstrate the ability to adhere to personal, industry, and OSHA safety standards in all projects.
- analyze and solve manufacturing problems and applications using a variety of fabrication and basic machining processes.
- explain, identify and troubleshoot applications of hydraulics and pneumatics as it pertains to manufacturing.
- communicate effectively, both orally and in writing, using appropriate technical language
- explain, identify, and troubleshoot applications of industrial electricity as it pertains to manufacturing.
- read, interpret, and compare industrial blueprints.

Required Major Courses (19 units)

<input type="checkbox"/> CMA-74 – Industrial Drawing and Print Reading	3.0
<input type="checkbox"/> MFGT-70 – Introduction to Mechanized Agriculture	3.0
<input type="checkbox"/> MFGT-130 – Introduction to Metal Fabrication	3.0
<input type="checkbox"/> MFGT-140 – Introduction to Industrial Hydraulics and Pneumatics	2.0
<input type="checkbox"/> MFGT-150 – Introduction to Industrial Electricity	2.0
<input type="checkbox"/> MFGT-169 – Hazmat and Industrial Safety	2.0
<input type="checkbox"/> MFGT-180 – Industrial Workplace Skills	1.0
<input type="checkbox"/> WLD-150 – Basic Welding	3.0

Major Electives (Complete 2-3 units)

<input type="checkbox"/> MFGT-131 – Intermediate Metal Fabrication	3.0
<input type="checkbox"/> MFGT-141 – Intermediate Industrial Hydraulics and Pneumatics	2.0
<input type="checkbox"/> MFGT-151 – Intermediate Industrial Electricity	2.0

Major Electives (Complete 5-6 units)

<input type="checkbox"/> CMA-75 – Engineering Drawing and Solidworks	3.0
<input type="checkbox"/> CMA-76 – Computer Aided Mechanical Drafting and Detailing	3.0
<input type="checkbox"/> CMA-81 – Computer Aided Drafting and Design I	3.0
<input type="checkbox"/> MFGT-71 – Agricultural and Industrial Equipment Operation	3.0
<input type="checkbox"/> MFGT-75 – Agriculture Machinery and Management	3.0
<input type="checkbox"/> MFGT-132 – Advanced Metal Fabrication	3.0
<input type="checkbox"/> WLD-151 – Introduction to GTAW/TIG Welding	3.0
<input type="checkbox"/> WLD-152 – Sheet Metal Fabrication	2.0

SUBTOTAL: 26-28 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) **MAT-126** or higher

- Natural Sciences Social & Behavioral Sciences Humanities
- Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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.

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/students/fa/net-price-calculator.html>

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

MATHEMATICS (AST.MAT)

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)

<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/>	MAT-3C – Analytic Geometry and Calculus III	4.0

Major Electives A (Complete 3 units)

<input type="checkbox"/>	MAT-4 – Linear Algebra	3.0
<input type="checkbox"/>	MAT-5 – Differential Equations	3.0

Major Electives B (Complete one additional 3-4 units)

<input type="checkbox"/>	MAT-4 – Linear Algebra	3.0
<input type="checkbox"/>	MAT-5 – Differential Equations	3.0
<input type="checkbox"/>	MAT-7 – Discrete Mathematics	4.0
<input type="checkbox"/>	MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/>	CSS-2A – Object Oriented Programming	4.0
<input type="checkbox"/>	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 80) 39 units

IGETC (see page 82) 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



**A Degree With A
Guarantee.comSM**
*Associate Degree
for Transfer*

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.
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

PROGRAMS

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



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.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- | | |
|------------------------------------|-----------------------------------|
| ▪ Arts and Education Administrator | ▪ Music Journalist |
| ▪ Composer | ▪ Music Promoter |
| ▪ Concert Hall Manager | ▪ Music Therapist Teacher |
| ▪ Conductor | ▪ Private Studio Instructor |
| ▪ Disc Jockey | ▪ Vocal or Instrumental Performer |
| ▪ Film Music Editor | ▪ Sound Engineer |
| ▪ Music Director | |

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/students/fa/net-price-calculator.html>

MUSIC (AAT.MUS)

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.
- 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)

<input type="checkbox"/> MUS-11 – Applied Music-Instrumental <i>(MUS-11 Course must be taken four times)</i>	2.0
<input type="checkbox"/> MUS-46 – Music Theory and Musicianship I	4.0
<input type="checkbox"/> MUS-47 – Music Theory and Musicianship II	4.0
<input type="checkbox"/> MUS-48 – Music Theory and Musicianship III	4.0
<input type="checkbox"/> MUS-49 – Music Theory and Musicianship IV	4.0

Required Major Courses—Ensemble (Complete 4 units)

<input type="checkbox"/> MUS-20 – Hartnell College Choir	1.0
<input type="checkbox"/> MUS-21 – Hartnell Chamber Singers	1.0
<input type="checkbox"/> MUS-23.1 – Hartnell Chorale – Renaissance/Baroque	1.0
<input type="checkbox"/> MUS-23.2 – Hartnell Chorale – Classical/Romantic	1.0
<input type="checkbox"/> MUS-23.3 – Hartnell Chorale – 20 th Century	1.0
<input type="checkbox"/> MUS-23.4 – Hartnell Chorale – 20 th Century “Pops”	1.0
<input type="checkbox"/> MUS-23.5 – Hartnell Chorale – 21 st Century	1.0
<input type="checkbox"/> MUS-26 – Jazz Ensemble	1.0

SUBTOTAL: 22 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

IGETC (see page 82) 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



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

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.
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.

Required Major Courses (31.5 units)

<input type="checkbox"/> MUS-1A – Music Appreciation – Historical	3.0
<input type="checkbox"/> MUS-2 – Music Fundamentals	3.0
<input type="checkbox"/> MUS-10 – Applied Music Voice	2.0
<i>(MUS-10 course must be taken two times)</i>	
OR	
MUS-11 – Applied Music-Instrumental	2.0
<i>(MUS-11 Course must be taken four times)</i>	
<input type="checkbox"/> MUS-13A – Beginning Piano I	1.5
<input type="checkbox"/> MUS-13B – Beginning Piano II	1.0
<input type="checkbox"/> MUS-14 – Intermediate Piano	1.0
<input type="checkbox"/> MUS-15 – Advanced Piano	1.0
<input type="checkbox"/> MUS-42 – Electronic Music	3.0
<input type="checkbox"/> MUS-46 – Music Theory and Musicianship I	4.0
<input type="checkbox"/> MUS-47 – Music Theory and Musicianship II	4.0
<input type="checkbox"/> MUS-48 – Music Theory and Musicianship III	4.0
<input type="checkbox"/> MUS-49 – Music Theory and Musicianship IV	4.0

Major Electives—Ensemble (Complete 4 units)

<input type="checkbox"/> MUS-20 – Hartnell College Choir	1.0
<input type="checkbox"/> MUS-21 – Hartnell Chamber Singers	1.0
<input type="checkbox"/> MUS-25 – College Wind Ensemble	1.0
<input type="checkbox"/> MUS-26 – Jazz Ensemble	1.0
<input type="checkbox"/> MUS-36 – Jazz Combo	1.0
<input type="checkbox"/> MUS-37 – Chamber Music Ensemble	1.0

SUBTOTAL: 35.5 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) **MAT-126** or higher

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 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 community-based settings. Graduates demonstrate the leadership and comportsment 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.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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/nah> 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/nah>), 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/nah>) 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:

1. 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.

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 PROGRAM (24 units)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | BIO-5 – Human Anatomy | 4.0 |
| <input type="checkbox"/> | BIO-6 – Introductory Physiology | 3.0 |
| <input type="checkbox"/> | BIO-6L – Physiology Laboratory | 2.0 |
| <input type="checkbox"/> | BIO-27 – Principles of Microbiology | 4.0 |
| <input type="checkbox"/> | CHM-22 – The Science of Chemistry | 4.0 |
| <input type="checkbox"/> | ENG-1A – College Composition and Reading | 3.0 |
| | OR | |
| | ENG-1AX – Intensive College Composition and Reading | 4.0 |
| <input type="checkbox"/> | ***MAT-123 – Intermediate Algebra | 5.0 |
| | OR | |
| | MAT-126 – Quantitative Reasoning for Personal and Professional Life | 4.0 |
| | OR | |
| | MAT-13 – Elementary Statistics (Recommended for Students pursuing BSN) | 4.0 |

*** Required Math Course for degree: Completion of any math course at or above the level of MAT-123 with a grade of “C” or better.

Required General Education Courses:

MAY BE TAKEN CONCURRENTLY WITH NRN COURSES (6-9 units)

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | PSY-25 – Developmental Psychology - Lifespan | 3.0 |
| | OR | |
| | NRN-70 – Growth and Development Across the Life Span for the Healthcare Professional | |
| <input type="checkbox"/> | ANT-2 – Introduction to Cultural Anthropology | 3.0 |
| | OR | |
| | SOC-1 – Introduction to Sociology | 3.0 |
| | AND | |
| | Humanities Group Course _____ (see page 76) | 3.0 |
| <input type="checkbox"/> | Ethnic Group Course _____ (see page 76)
(Recommended: ENG-1A with a Multicultural Perspective) | |
| <input type="checkbox"/> | 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

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NRN-110 – Foundations for Success for RNs | 1.0 |
| <input type="checkbox"/> | NRN-46 – Health Promotion and Foundational Health Concepts Across the Lifespan | 6.5 |
| <input type="checkbox"/> | NRN-47 – Social Determinants of Health | 1.5 |
| <input type="checkbox"/> | NRN-48 – Nursing Assessment and Interventions | 1.0 |
| <input type="checkbox"/> | NRN-49 – Introduction to Pharmacology and Medication Administration | 1.5 |

2nd SEMESTER – 9 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NRN-56 – Care of Diverse Individuals and Families with Stable Conditions | 8.0 |
| <input type="checkbox"/> | NRN-57 – Nursing Interventions and Scenarios | 0.5 |
| <input type="checkbox"/> | NRN-58 – Application of Pharmacology Across the Lifespan | 0.5 |

3rd SEMESTER – 8 units

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | NRN-66 – Care of Clients with Complex Physiology and Psychological Conditions | 8.0 |
|--------------------------|---|-----|

4th SEMESTER – 8 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NRN-76 – Care of Clients with Potential or Actual Multi-System Failure | 7.0 |
| <input type="checkbox"/> | NRN-77 – Role Transition and Care Coordination Seminar | 1.0 |

Nursing and Health Sciences Electives: (recommended, not required)

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | NRN-50.41 – Supervised Nursing Skills Practice I | 0.5 |
| <input type="checkbox"/> | NRN-50.42 – Supervised Nursing Skills Practice II | 0.5 |
| <input type="checkbox"/> | NRN-50.43 – Supervised Nursing Skills Practice III | 0.5 |
| <input type="checkbox"/> | NRN-50.44 – Supervised Nursing Skills Practice IV | 0.5 |
| <input type="checkbox"/> | NRN-225 – Success Strategies for 1 st Semester RN Students | 0.5 |
| <input type="checkbox"/> | NRN-226 – Success Strategies for 2 nd Semester RN Students | 0.5 |
| <input type="checkbox"/> | NRN-227 – Success Strategies for 3 rd Semester RN Students | 0.5 |
| <input type="checkbox"/> | NRN-228 – Success Strategies for 4 th Semester RN Students | 0.5 |
| <input type="checkbox"/> | BIO-18 – Introduction to Pathophysiology | 3.0 |
| <input type="checkbox"/> | HES-1 – Introduction to Public Health | 3.0 |
| <input type="checkbox"/> | HES-2 – Health and Social Justice | 3.0 |
| <input type="checkbox"/> | HES-3 – Drugs, Health, and Society | 3.0 |
| <input type="checkbox"/> | HES-80 – Medical Terminology | 3.0 |
| <input type="checkbox"/> | LIB-6 – Information Competency in the Social Sciences | 1.0 |
| <input type="checkbox"/> | NUTR-1 – Nutrition | 3.0 |

SUBTOTAL: 48.5 UNITS

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/academics-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/students/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/nah>), 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/nah>). 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 121, 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: nursingandalliedhealth@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 – 21-24 units

- | | | |
|--------------------------|---|-------|
| <input type="checkbox"/> | ENG-1A – College Composition and Reading | 3.0 |
| | OR | |
| | ENG-1AX – Intensive College Composition and Reading | 4.0 |
| <input type="checkbox"/> | MAT-126 – Quantitative Reasoning for Personal and Professional Life | 4.0 |
| | <i>or Higher</i> | |
| <input type="checkbox"/> | HES-120 ¹ – AHS Basic Life Support for HCP | (0.5) |
| <input type="checkbox"/> | BIO-11* – Intro to Human Anatomy & Physiology | 4.0 |
| | OR | |
| | BIO-5* – Human Anatomy | (4.0) |
| | AND | |
| | BIO-6* – Introductory Physiology | (3.0) |
| | AND | |
| | BIO-6L – Physiology Lab | (2.0) |
| <input type="checkbox"/> | PSY-2* – General Psychology | 3.0 |
| <input type="checkbox"/> | LIB-6 – Information Competency in the Social Science | 1.0 |
| | OR | |
| | Communication and Analytic Thinking Course _____ (see page 68) | 3.0 |
| <input type="checkbox"/> | Ethnic Group Course _____ (see page 76) | 3.0 |
| | (Recommended: ENG-1A with a Multicultural Perspective) | |
| <input type="checkbox"/> | Humanities Group Course ____ (see page 76) | 3.0 |

*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.

¹Any 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.

1st SEMESTER – 16 units

- | | | |
|--------------------------|---|-------|
| <input type="checkbox"/> | NUTR-51* – Essential of Nutrition | 3.0 |
| | OR | |
| | NUTR-1 – Nutrition | (3.0) |
| <input type="checkbox"/> | NVN-70* – Growth & Development Across the Lifespan | 3.0 |
| | OR | |
| | PSY-25 – Developmental Psychology: Lifespan | (3.0) |
| <input type="checkbox"/> | NVN-110 – Foundations for Success for VN Students | 1.0 |
| <input type="checkbox"/> | NVN-119 – Vocational Nursing Theory I: Fundamentals | 4.0 |
| <input type="checkbox"/> | NVN-119.1 – Vocational Nursing Clinical I: Fundamentals | 4.0 |
| <input type="checkbox"/> | NVN-130A – Basic Pharmacology A | 1.0 |

2nd SEMESTER – 14 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NVN-121 – Vocational Nursing Theory II | 6.5 |
| <input type="checkbox"/> | NVN-121.1 – Vocational Nursing Clinical II | 6.5 |
| <input type="checkbox"/> | NVN-130B – Basic Pharmacology B | 1.0 |

3rd SEMESTER – 14 units

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | NVN-123 – Vocational Nursing Theory II | 6.5 |
| <input type="checkbox"/> | NVN-123.1 – Vocational Nursing Clinical III | 6.5 |
| <input type="checkbox"/> | 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 Allied Health Electives: (recommended, not required)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NVN-225 – Success Strategies for Vocational Nursing: Fundamentals | 0.5 |
| <input type="checkbox"/> | NVN-226 – Success Strategies for Vocational Nursing: Health Promotion | 0.5 |
| <input type="checkbox"/> | NVN-227 – Success Strategies for Vocational Nursing: Care Coordination | 0.5 |
| <input type="checkbox"/> | NVN-210 – Intravenous Therapy and Blood Withdrawal Techniques | 2.0 |

SUBTOTAL: 63-65.5 UNITS

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 – 13-21 units

- | | | |
|--------------------------|---|-------|
| <input type="checkbox"/> | ENG-1A – College Composition and Reading | 3.0 |
| | OR | |
| | ENG-1AX – Intensive College Composition and Reading | (4.0) |
| <input type="checkbox"/> | MAT-121 – Elementary Algebra | 5.0 |
| | OR | |
| | MAT-106 – Integrated Mathematics | |
| | <i>or Higher</i> | (3.0) |
| <input type="checkbox"/> | HES-120 ¹ – AHS Basic Life Support for HCP | (0.5) |
| <input type="checkbox"/> | BIO-11* – Intro to Human Anatomy & Physiology | 4.0 |
| | OR | |
| | BIO-5* – Human Anatomy | (4.0) |
| | AND | |
| | BIO-6* – Introductory Physiology | (3.0) |
| | AND | |
| | BIO-6L* – Physiology Lab | (2.0) |
| <input type="checkbox"/> | PSY-2* – General Psychology | 3.0 |

1st SEMESTER – 16 units

- | | | |
|--------------------------|---|-------|
| <input type="checkbox"/> | NUTR-51* – Essential of Nutrition | 3.0 |
| | OR | |
| | NUTR-1 – Nutrition | (3.0) |
| <input type="checkbox"/> | NRN/NVN-70* – Growth & Development. Across the Lifespan | 3.0 |
| | OR | |
| | PSY-25 – Developmental Psychology: Lifespan | (3.0) |
| <input type="checkbox"/> | NVN-110 – Foundations for Success for VN Students | 1.0 |
| <input type="checkbox"/> | NVN-119 – Vocational Nursing Theory I: Fundamentals | 4.0 |
| <input type="checkbox"/> | NVN-119.1 – Vocational Nursing Clinical I: Fundamentals | 4.0 |
| <input type="checkbox"/> | NVN-130A – Basic Pharmacology A | 1.0 |

CON'T OF NURSING—VOCATIONAL NURSING

2nd SEMESTER – 14 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NVN-121 – Vocational Nursing Theory II | 6.5 |
| <input type="checkbox"/> | NVN-121.1 – Vocational Nursing Clinical II | 6.5 |
| <input type="checkbox"/> | NVN-130B – Basic Pharmacology B | 1.0 |

3rd SEMESTER – 14 units

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | NVN-123 – Vocational Nursing Theory II | 6.5 |
| <input type="checkbox"/> | NVN-123.1 – Vocational Nursing Clinical III | 6.5 |
| <input type="checkbox"/> | NVN-130C – Basic Pharmacology C | 1.0 |

Nursing and Allied Health Electives: (recommended, not required)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | NVN-225 – Success Strategies for Vocational Nursing: Fundamentals | 0.5 |
| <input type="checkbox"/> | NVN-226 – Success Strategies for Vocational Nursing: Health Promotion | 0.5 |
| <input type="checkbox"/> | NVN-227 – Success Strategies for Vocational Nursing: Care Coordination | 0.5 |
| <input type="checkbox"/> | NVN-210 – Intravenous Therapy and Blood Withdrawal Techniques | 2.0 |

*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.

¹Any 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.

TOTAL: 57-65 UNITS

PHOTOGRAPHY

PROGRAMS

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



DESCRIPTION

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.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

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)

<input type="checkbox"/> PHO-1 – Introduction to Photography	3.0
<input type="checkbox"/> PHO-2 – Beginning Black and White Photography	3.0
<input type="checkbox"/> PHO-3 – Advanced Photography Lab	3.0
<input type="checkbox"/> PHO-4 – Portfolio Photography	3.0
<input type="checkbox"/> ART-12A – Design	3.0
<input type="checkbox"/> ART-72 – Introduction to Digital Arts	3.0
<input type="checkbox"/> ART-80 – Intro to Digital Photography & Photographic Imaging	3.0

Major Electives A (Complete 3 units)

<input type="checkbox"/> ART-1A – Art History Survey I	3.0
<input type="checkbox"/> ART-1B – Art History Survey II	3.0
<input type="checkbox"/> ART-3 – Drawing and Composition	3.0

Major Electives B (Complete 3 units)

<input type="checkbox"/> ART-6A – Watercolor and Gouache	3.0
<input type="checkbox"/> ART-6B – Oils	3.0
<input type="checkbox"/> ART-6C – Acrylics	3.0
<input type="checkbox"/> ART-10 – Art Appreciation	3.0
<input type="checkbox"/> ART-70 – Graphic Design/Computer Graphics	3.0
<input type="checkbox"/> ART-71 – Introduction to 2D digital Illustration	3.0
<input type="checkbox"/> 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) MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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)

<input type="checkbox"/>	PHO-1 – Introduction to Photography	3.0
<input type="checkbox"/>	PHO-2 – Beginning Black and White Photography	3.0
<input type="checkbox"/>	PHO-3 – Advanced Photography Lab	3.0
<input type="checkbox"/>	PHO-4 – Portfolio Photography	3.0
<input type="checkbox"/>	ART-12A – Design	3.0
<input type="checkbox"/>	ART-70 – Graphic Design/Computer Graphics	3.0
<input type="checkbox"/>	ART-80 – Intro to Digital Photo & Photographic Imaging	3.0

Major Electives (Complete 3 units)

<input type="checkbox"/>	ART-1A – Art History Survey I	3.0
<input type="checkbox"/>	ART-1B – Art History Survey II	3.0
<input type="checkbox"/>	ART-77 – Digital Video, Editing and Production	3.0

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
	OR	
	ESL-101* – Academic Writing and Reading II	5.0
<input type="checkbox"/>	MAT-106** – Integrated Mathematics	3.0

TOTAL: 24 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

PHYSICS

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: solid-state 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

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

PHYSICS (AST.PHY)

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)

<input type="checkbox"/> PHY-4A – General Physics I/Mechanics	4.0
<input type="checkbox"/> PHY-4B – General Physics II/Electricity and Magnetism	4.0
<input type="checkbox"/> PHY-4C – General Physics III/Waves, Heat, Light, Sound and Modern Physics	4.0
<input type="checkbox"/> MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/> MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/> MAT-3C – Analytic Geometry and Calculus III	4.0

Major Electives (None Required)

<input type="checkbox"/> CHM-1A – General Chemistry I	5.0
<input type="checkbox"/> CHM-1B – General Chemistry II	5.0
<input type="checkbox"/> CSS-4 – Introduction to Scientific Programming	4.0
<input type="checkbox"/> MAT-4 – Linear Algebra	3.0
<input type="checkbox"/> MAT-5 – Differential Equations	3.0

SUBTOTAL: 24 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80)	39 units
IGETC (see page 82)	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



**A Degree With A
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*Associate Degree
for Transfer*

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.
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.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

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>

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POLITICAL SCIENCE (AAT.POL)

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)

<input type="checkbox"/>	POL-1 – American Political Institution	3.0
<input type="checkbox"/>	POL-2 – Introduction to Comparative Politics	3.0
<input type="checkbox"/>	POL-3 – Introduction to International relations	3.0
<input type="checkbox"/>	POL-6 – Introduction to Contemporary Political Thought	3.0
<input type="checkbox"/>	MAT-13 – Elementary Statistics	4.0

Major Electives (Complete 6 units)

<input type="checkbox"/>	ECO-1 – Principles of Macroeconomics	3.0
<input type="checkbox"/>	ECO-5 – Principles of Microeconomics	3.0
<input type="checkbox"/>	ETH-1 – Introduction to Ethnic Studies	3.0
<input type="checkbox"/>	POL-5 – Chicano Politics & American Political System	3.0
<input type="checkbox"/>	SOC-1 – Introduction to Sociology	3.0

SUBTOTAL: 22 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



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*Associate Degree
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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.
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.

PSYCHOLOGY

PROGRAMS

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



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

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

FINANCIAL AID

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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

PSYCHOLOGY (AAT.PSY)

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)

<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/> PSY-2 – General Psychology	3.0
<input type="checkbox"/> PSY-9 – Research Methods in Psychology	4.0
<input type="checkbox"/> PSY-10 – Introduction to Biological Psychology	3.0

Major Electives Courses (Complete 3 units)

<input type="checkbox"/> PSY-14 – Child Psychology	3.0
<input type="checkbox"/> PSY-25 – Developmental Psychology –Lifespan	3.0

Major Electives Courses (Complete 3 units)

<input type="checkbox"/> PSY-6 – Social Psychology	3.0
<input type="checkbox"/> PSY-15 – Human Sexuality	3.0
<input type="checkbox"/> 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 80) 39 units

IGETC (see page 82) 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



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*Associate Degree
for Transfer*

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.
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.

PSYCHOLOGY (AA.PSY)

ASSOCIATE OF ARTS

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 Courses (27 units)

<input type="checkbox"/> PSY-2 – General Psychology	3.0
<input type="checkbox"/> PSY-6 – Social Psychology	3.0
<input type="checkbox"/> PSY-9 – Research Methods in Psychology	4.0
<input type="checkbox"/> PSY-10 – Introduction to Biological Psychology	3.0
<input type="checkbox"/> PSY-12 – Theories of Personality	3.0
<input type="checkbox"/> PSY-22 – Abnormal Psychology	3.0
<input type="checkbox"/> MAT-2 – Calculus for Managerial, Life and Social Science	4.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0

Major Electives (Complete 3 units)

<input type="checkbox"/> PSY-14 – Child Psychology	3.0
<input type="checkbox"/> PSY-25 – Developmental Psychology – Lifespan	3.0

Major Electives (None required)

<input type="checkbox"/> PSY-15 – Human Sexuality	3.0
<input type="checkbox"/> PSY-42 – Psychology for Women	3.0

SUBTOTAL: 30 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 76) *MAT-2 and MAT-13*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

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)

<input type="checkbox"/>	BIO-5 – Human Anatomy	4.0
<input type="checkbox"/>	BIO-6 – Introductory Physiology	3.0
<input type="checkbox"/>	BIO-6L – Physiology Laboratory	2.0
<input type="checkbox"/>	BIO-10 – General Biology	4.0
<input type="checkbox"/>	CHM-1A – The General Chemistry I	5.0
OR		
	CHM-22 – The Science of Chemistry I	4.0
<input type="checkbox"/>	HED-2 – Individual Health and Wellness	3.0
<input type="checkbox"/>	HES-1 – Introduction to Public Health	3.0
<input type="checkbox"/>	MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/>	PSY-2 – General Psychology	3.0

Major Electives (Complete 3 units)

<input type="checkbox"/>	ECO-1 – Principles of Macroeconomics	3.0
<input type="checkbox"/>	ECO-5 – Principles of Microeconomics	3.0
<input type="checkbox"/>	HES-2 – Health and Social Justice	3.0
<input type="checkbox"/>	HES-3 – Drug, Health and Society	3.0
<input type="checkbox"/>	NUTR-1 – Nutrition	3.0
<input type="checkbox"/>	PSY-15 – Human Sexuality	3.0
<input type="checkbox"/>	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 80)	39 units
IGETC (see page 82)	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.*



**A Degree With A
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*Associate Degree
for Transfer*

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.
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 throughout the program. 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:

- Health Teacher
- 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

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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 RC 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/nah/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/nah/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 Monterey, Santa Clara, Santa Barbara and San Luis Obispo counties. Students accepted for entry into the RC 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. In-progress 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: nah@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
 - evaluate data to assess the appropriateness of prescribed respiratory care
 - 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
 - apply problem-solving strategies in the patient care setting
 - 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
 - demonstrate ethical and professional behaviors
 - demonstrate effective oral and written communication skills
 - interact effectively with other members of the healthcare team
 - 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 (24 units)

<input type="checkbox"/>	BIO-5 – Human Anatomy	4.0
<input type="checkbox"/>	BIO-6 – Introductory Physiology	3.0
<input type="checkbox"/>	BIO-6L – Physiology Laboratory	2.0
<input type="checkbox"/>	BIO-27 – Principles of Microbiology	4.0
<input type="checkbox"/>	ENG-1A – College Composition and Reading	3.0
<input type="checkbox"/>	MAT-123 – Intermediate Algebra <i>or Higher</i>	5.0
<input type="checkbox"/>	PSY-2 – General Psychology	3.0

Required Major Courses (6.5 units)

<input type="checkbox"/>	ANT-2 – Introduction to Cultural Anthropology	3.0
	OR	
	SOC-1 – Introduction to Sociology	3.0
<input type="checkbox"/>	Ethnic Group Course _____ (see page 76)	
<input type="checkbox"/>	COM-1 – Introduction of Public Speaking	3.0
	OR	
	COM-3 – Survey of Human Communication	3.0
<input type="checkbox"/>	HES-120 ³ – American Heart Association Basic Life	0.5

¹ SOC-1 Introduction to Sociology is acceptable in lieu of ANT-2; however, a separate course is required to satisfy the Humanities general education requirement.

³ Or any American Heart Association Healthcare Provider Basic Life Support certification course.

CON'T OF RESPIRATORY CARE

Required Major Courses (After acceptance into the program) (44.5 units)

1st SEMESTER – 10.5 units

- | | | |
|--------------------------|---|-----|
| <input type="checkbox"/> | RCP-110 – Foundations for Success | 1.5 |
| <input type="checkbox"/> | RCP-50 – Respiratory Care Practitioner Responsibilities | 1.5 |
| <input type="checkbox"/> | RCP-51 – Pharmacology and Medication Administration | 3.0 |
| <input type="checkbox"/> | RCP-52 – Cardiopulmonary Anatomy and Physiology | 3.0 |
| <input type="checkbox"/> | RCP-53 – Foundational Skills | 1.0 |
| <input type="checkbox"/> | RCP-54 – Supervised Practice: Foundations | 0.5 |

2nd SEMESTER – 12.5 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | RCP-60 – Diagnostic Studies and Respiratory Care | 3.0 |
| <input type="checkbox"/> | RCP-61 – Respiratory Therapeutics | 3.0 |
| <input type="checkbox"/> | RCP-62 – Cardiopulmonary Pathophysiology | 2.0 |
| <input type="checkbox"/> | RCP-63 – Beginning Clinical Experience | 4.0 |
| <input type="checkbox"/> | RCP-64 – Supervised Practice: Beginning | 0.5 |

3rd SEMESTER – 11.5 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | RCP-70 – Neonatal and Pediatric Respiratory Care | 2.0 |
| <input type="checkbox"/> | RCP-71 – Basic Mechanical Ventilation | 3.0 |
| <input type="checkbox"/> | RCP-72 – Neurological and Traumatic Conditions | 2.0 |
| <input type="checkbox"/> | RCP-73 – Intermediate Clinical Experience | 4.0 |
| <input type="checkbox"/> | RCP-74 – Supervised Practice: Intermediate | 0.5 |

4th SEMESTER – 11 units

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | RCP-80 – Advanced Respiratory Care | 1.5 |
| <input type="checkbox"/> | RCP-81 – Advanced Mechanical Ventilation | 3.0 |
| <input type="checkbox"/> | RCP-82 – Clinical Reasoning Seminar | 2.0 |
| <input type="checkbox"/> | RCP-83 – Advanced Clinical Experiences | 4.0 |
| <input type="checkbox"/> | RCP-84 – Supervised Practice: Advanced | 0.5 |

Respiratory Care Success Courses: (recommended, not required)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | RCP-225 – Success Strategies for 1 st Semester RCP Students | 0.5 |
| <input type="checkbox"/> | RCP-226 – Success Strategies for 2 nd Semester RCP Students | 0.5 |
| <input type="checkbox"/> | RCP-227 – Success Strategies for 3 rd Semester RCP Students | 0.5 |
| <input type="checkbox"/> | RCP-228 – Success Strategies for 4 th Semester RCP Students | 0.5 |

SUBTOTAL: 45.5 UNITS

TOTAL: 76 UNITS

SOCIAL JUSTICE

PROGRAMS

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



DESCRIPTION

Social Justice Studies Program will prepare students with lower-division coursework required at most universities for advancement to upper division coursework for the Bachelors 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.

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/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

SOCIAL JUSTICE (AAT.SJ)

ASSOCIATE IN ARTS FOR TRANSFER

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 (14 units)

<input type="checkbox"/> SJS-20 – Introduction to Social Justice	3.0
<input type="checkbox"/> SJS-22 – Women’s Studies	3.0
OR	
<input type="checkbox"/> SOC-20 – Sociology of Gender and Society	3.0
<input type="checkbox"/> ETH-1 – Introduction to Ethnic Studies	3.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	5.0

Major Electives (Complete 9 units)

<input type="checkbox"/> ETH-2 – Chicana/o/x Leadership	3.0
<input type="checkbox"/> ETH-3 – Introduction to Chicanx Studies	3.0
<input type="checkbox"/> ETH-4 – Chicanx Culture	3.0
<input type="checkbox"/> ETH-6 – La Chicana	3.0
<input type="checkbox"/> ETH-7 – Chicana/o/x Theatre	3.0
<input type="checkbox"/> ETH-12 – Chicano Cinema	3.0
<input type="checkbox"/> POL-5 – Chicano Politics	3.0

SUBTOTAL: 23 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



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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.
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
- Public Administration
- Public Relations
- Researchers
- Sales
- Social Work
- Teacher
- Teaching
- 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.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

SOCIOLOGY (AAT-SOC)

ASSOCIATE IN ARTS FOR TRANSFER

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)

<input type="checkbox"/> SOC-1 – Introduction to Sociology	3.0
<input type="checkbox"/> SOC-5 – Introduction to Social Problems	3.0
<input type="checkbox"/> MAT-13 – Elementary Statistics	4.0

Major Electives A Courses (Complete 6 units)

<input type="checkbox"/> ADJ-51 – Criminology	3.0
<input type="checkbox"/> PSY-6 – Social Psychology	3.0
<input type="checkbox"/> SOC-20 – Sociology of Gender and Society	3.0
<input type="checkbox"/> SOC-41 – Marriage and the Family	3.0
<input type="checkbox"/> SOC-42 – Sociology of Minority Relations	3.0

Major Electives B Courses (Complete 3 units)

<input type="checkbox"/> SOC-15 – Sociology of Immigration & Identity in US	3.0
<input type="checkbox"/> 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 80) 39 units

IGETC (see page 82) 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



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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.
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.

SPANISH

PROGRAMS

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



DESCRIPTION

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.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

SPANISH (AAT.SPA)

ASSOCIATE IN ARTS FOR TRANSFER

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)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | SPA-1 – Elementary Spanish | 5.0 |
| <input type="checkbox"/> | SPA-1S – Elementary Spanish Speakers | 5.0 |
| <input type="checkbox"/> | SPA-1X – Elementary Spanish for Chicano Students | 5.0 |

Required Major Courses (Complete 5 units)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | SPA-2 – Elementary Spanish | 5.0 |
| <input type="checkbox"/> | SPA-2S – Elementary Spanish Speakers | 5.0 |
| <input type="checkbox"/> | SPA-2X – Elementary Spanish for Chicano Students | 5.0 |

Required Major Courses (Complete 5 units)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | SPA-3 – Intermediate Spanish | 5.0 |
| <input type="checkbox"/> | SPA-3S – Intermediate Spanish Speakers | 5.0 |

Required Major Courses (Complete 5 units)

- | | | |
|--------------------------|--|-----|
| <input type="checkbox"/> | SPA-4 – Intermediate Spanish | 5.0 |
| <input type="checkbox"/> | SPA-4S – Intermediate Spanish Speakers | 5.0 |

Major Electives (Complete 3 units)

- | | | |
|--------------------------|-----------------------------|-----|
| <input type="checkbox"/> | ENG-26 – Chicano Literature | 3.0 |
| <input type="checkbox"/> | HIS-6 – History of Mexico | 3.0 |
| <input type="checkbox"/> | HIS-49A – Chicano History | 3.0 |

SUBTOTAL: 23 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



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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.
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.

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.

Required Major Courses (Complete 5 units)

- | | |
|---|-----|
| <input type="checkbox"/> SPA-1 – Elementary Spanish | 5.0 |
| <input type="checkbox"/> SPA-1S – Elementary Spanish Speakers | 5.0 |
| <input type="checkbox"/> SPA-1X – Elementary Spanish for Chicano Students | 5.0 |

Required Major Courses (Complete 5 units)

- | | |
|---|-----|
| <input type="checkbox"/> SPA-2 – Elementary Spanish | 5.0 |
| <input type="checkbox"/> SPA-2S – Elementary Spanish Speakers | 5.0 |
| <input type="checkbox"/> SPA-2X – Elementary Spanish for Chicano Students | 5.0 |

Required Major Courses (Complete 5 units)

- | | |
|---|-----|
| <input type="checkbox"/> SPA-3 – Intermediate Spanish | 5.0 |
| <input type="checkbox"/> SPA-3S – Intermediate Spanish Speakers | 5.0 |

Required Major Courses (Complete 5 units)

- | | |
|---|-----|
| <input type="checkbox"/> SPA-4 – Intermediate Spanish | 5.0 |
| <input type="checkbox"/> SPA-4S – Intermediate Spanish Speakers | 5.0 |

Major Electives (Complete 6 units)

- | | |
|--|-----|
| <input type="checkbox"/> ECE-2 – Child, Family, School & Community Relations | 3.0 |
| <input type="checkbox"/> ECE-53 – Teaching in a Diverse Society | 3.0 |
| <input type="checkbox"/> ETH-1 – Introduction to Ethnic Studies | 3.0 |
| <input type="checkbox"/> ETH-4 – Chicanx Culture | 3.0 |
| <input type="checkbox"/> MUS-5 – Ethnic Music in the United States | 3.0 |
| <input type="checkbox"/> 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) MAT-126 or higher

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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

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/students/fa/net-price-calculator.html>

STUDIO ARTS (AAT.SART)

ASSOCIATE IN ARTS FOR TRANSFER

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)

<input type="checkbox"/> ART-1A – Art History Survey I	3.0
<input type="checkbox"/> ART-1B – Art History Survey II	3.0
<input type="checkbox"/> ART-3 – Drawing and Composition	3.0
<input type="checkbox"/> ART-12A – Design	3.0
<input type="checkbox"/> ART-13 – Three-Dimensional Design	3.0

Major Electives (Complete 9 units)

<input type="checkbox"/> ART-6A – Watercolors & Gouache	3.0
<input type="checkbox"/> ART-15A – Ceramics	3.0
<input type="checkbox"/> ART-70 – Intro to Graphic Design & Computer Graphics	3.0
<input type="checkbox"/> ART-71 – Introduction to 2D Digital Illustration	3.0
<input type="checkbox"/> ART-72 – Introduction to Digital Art	3.0
<input type="checkbox"/> PHO-1 – Introduction to Photography	6.0

AND

PHO-2 – Beginning Black and White Photography

SUBTOTAL: 24 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 80) 39 units

IGETC (see page 82) 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



**A Degree With A
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*Associate Degree
for Transfer*

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.
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 | ▪ Designer |
| ▪ Agent | ▪ Director |
| ▪ Announcer | ▪ Model |
| ▪ Art Director | ▪ Stage Manager |
| ▪ Casting Director | ▪ Teacher/Professor |
| ▪ Concert Venue Technician | ▪ Theatre Technician |
| ▪ Critic | ▪ 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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

THEATRE ARTS (AAT.THA)

ASSOCIATE IN ARTS FOR TRANSFER

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)

- | | |
|--|-----|
| <input type="checkbox"/> TAC-1 – Introduction to Theatre | 3.0 |
| OR | |
| TAC-3 – History of Theatre | 3.0 |
| <input type="checkbox"/> TAC-10 – Acting I – Acting for Everyone | 3.0 |

Required Major Courses (Complete 3 units)

- | | |
|---|-----|
| <input type="checkbox"/> 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 | |
| <input type="checkbox"/> 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 |

Major Electives (Complete 9 units)

- | | |
|--|-----|
| <input type="checkbox"/> TAC-2 – Script Analysis | 3.0 |
| <input type="checkbox"/> TAC-11 – Acting II | 3.0 |
| <input type="checkbox"/> TAC-30 – Fundamentals of Theatre Design | 3.0 |

If not used in Required Major Courses (3 units maximum from these courses)

- | | |
|---|-----|
| <input type="checkbox"/> 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

- | | |
|---|-----|
| <input type="checkbox"/> 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 80) | 39 units |
| IGETC (see page 82) | 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



**A Degree With A
Guarantee.com**
Associate Degree
for Transfer

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.
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 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.

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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<https://www.hartnell.edu/students/fa/net-price-calculator.html>

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- | | |
|----------------------------|-------------------------|
| ▪ Actor | ▪ Designer |
| ▪ Agent | ▪ Director |
| ▪ Announcer | ▪ Model |
| ▪ Art Director | ▪ Stage Manager |
| ▪ Casting Director | ▪ Teacher/Professor |
| ▪ Concert Venue Technician | ▪ Theatre Technician |
| ▪ Critic | ▪ Theme Park Technician |

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 situations.
- analyze, interpret, and evaluate their own and others' work in theatre & cinema as a patron and participant.

Required Major Courses (Complete 15 units)

- | | |
|--|-----|
| <input type="checkbox"/> TAC-1 – Introduction to Theatre | 3.0 |
| OR | |
| TAC-50 – Introduction to Film | 3.0 |
| <input type="checkbox"/> TAC-3 – History of Theatre | 3.0 |
| <input type="checkbox"/> TAC-10 – Acting I | 3.0 |
| <input type="checkbox"/> TAC-2 – Script Analysis | 3.0 |
| OR | |
| TAC-53 – Playwriting and Screenwriting | 3.0 |
| <input type="checkbox"/> TAC-30 – Fundamentals of Theatre Design | 3.0 |

Required Major Courses (Complete 3 units)

- | | |
|---|-----|
| <input type="checkbox"/> Production: TAC -17, 20, 21, 22, 24, 25, 53, 54 | 3.0 |
| OR | |
| 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)

- | | |
|---|-----|
| <input type="checkbox"/> TAC-2 – Script Analysis | 3.0 |
| <input type="checkbox"/> TAC-7/ETH-7 – Chicano Theatre | 3.0 |
| <input type="checkbox"/> TAC-11 – Acting II | 3.0 |
| <input type="checkbox"/> TAC-15 – Acting for the Camera | 3.0 |
| <input type="checkbox"/> TAC-23 – Introduction to Theatre for Social Change | 3.0 |
| <input type="checkbox"/> TAC-53 – Playwriting and Screenwriting | 3.0 |
| <input type="checkbox"/> TAC-55 – Directing | 3.0 |
| <input type="checkbox"/> TAC-92 – Children's Theatre | 3.0 |

FILM, TELEVISION, ELECTRONIC MEDIA EMPHASIS

Major Electives (Complete 6 units –NOT TAKEN IN REQUIRED MAJOR COURSES)

- | | |
|--|-----|
| <input type="checkbox"/> TAC-50 – Introduction to Film: History up to the 1960's | 3.0 |
| <input type="checkbox"/> TAC-51 – Beginning TV Studio Production | 3.0 |
| <input type="checkbox"/> TAC-54 – Video Production Lab – Single Camera | 3.0 |
| <input type="checkbox"/> 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) MAT-126 or higher

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Natural Sciences | <input type="checkbox"/> Social & Behavioral Sciences | <input type="checkbox"/> Humanities |
| <input type="checkbox"/> Ethnic Groups in the US | <input type="checkbox"/> Language and Rationality | |

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

WELDING

PROGRAMS

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



DESCRIPTION

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

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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)

<input type="checkbox"/>	CMA-74 – Industrial Print Reading and Drawing	3.0
<input type="checkbox"/>	MFGT-169 – Hazardous Materials and Industrial Safety	2.0
<input type="checkbox"/>	WLD-150 – Introduction to Arc Welding	3.0
<input type="checkbox"/>	WLD-151 – Introduction to GTAW/TIG Welding	3.0
<input type="checkbox"/>	WLD-152 – Sheet Metal Fabrication	2.0
<input type="checkbox"/>	WLD-153 – Welding Fabrication	3.0
<input type="checkbox"/>	WLD-154 – Advanced Arc Welding	3.0
<input type="checkbox"/>	WLD-155 – Ornamental Ironwork	2.0
<input type="checkbox"/>	WLD-156 – Toolmaking	2.0
<input type="checkbox"/>	WLD-157 – Pipe Welding	3.0
<input type="checkbox"/>	WLD-158 – Hardfacing and Surfacing	2.0

Restricted Major Electives (Complete 9 units)

<input type="checkbox"/>	CMA-75 – Engineering Drawing/Solid Works	3.0
<input type="checkbox"/>	CMA-81 – Computer Aided Drafting and Design	3.0
<input type="checkbox"/>	MFGT-130 – Introduction to Metal Fabrication	3.0
<input type="checkbox"/>	MFGT-150 – Introduction to Industrial Electricity	2.0
<input type="checkbox"/>	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) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

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

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

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)

<input type="checkbox"/>	CMA-74 – Industrial Print Reading and Drawing	3.0
<input type="checkbox"/>	MFGT-169 – Hazardous Materials and Industrial Safety	2.0
<input type="checkbox"/>	WLD-150 – Introduction to Arc Welding	3.0
<input type="checkbox"/>	WLD-151 – Introduction to GTAW/TIG Welding	3.0
<input type="checkbox"/>	WLD-153 – Welding Fabrication	3.0
<input type="checkbox"/>	WLD-154 – Advanced Arc Welding	3.0
<input type="checkbox"/>	WLD-155 – Ornamental Ironwork	2.0
<input type="checkbox"/>	WLD-156 – Toolmaking	2.0
<input type="checkbox"/>	WLD-157 – Pipe Welding	3.0

Major Electives (Complete 6 units)

<input type="checkbox"/>	WLD-152 – Sheet Metal Fabrication	2.0
<input type="checkbox"/>	WLD-158 – Hardfacing and Surfacing	2.0
<input type="checkbox"/>	WLD-99 – Cooperative Work Experience	1.0-4.0

Other Required Courses

<input type="checkbox"/>	ENG-101* – Intermediate Composition and Reading	3.0
OR		
	ESL-101* – Academic Writing and Reading II	5.0
<input type="checkbox"/>	MAT-106** – Integrated Mathematics	3.0

TOTAL: 30 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Eligibility for MAT-126 or any higher level math class fulfills this requirement.

FINANCIAL AID

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