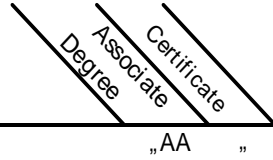


HARTNELL COLLEGE DEGREES AND CERTIFICATES

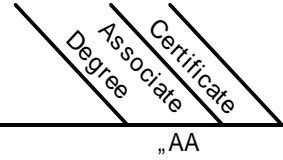
Program

Addiction Studies



Program

General Studies:



Computer Science for Transfer

Computer Science and Information Systems:

Computer Science Option

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„AS-T

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Nursing:

Registered Nursing

Vocational Nursing

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The Hartnell College Associate Degree in Addiction Studies provides students with the academic preparation needed

AOD 1 – Fundamentals of Chemical Dependency	3.0
AOD 2 – Pharmacology and Physiology of Alcohol and Other Drugs	3.0
AOD 3 – Introduction to Case Management and Treatment Planning	3.0
AOD 4 – Counseling Diverse Populations	3.0
AOD 5 – Legal/Ethical Considerations and Professional Growth	3.0
AOD 6 – Prevention, Education, and Relapse Prevention	3.0
AOD 7 – Individual, Group, and Family Approaches	3.0

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AOD 1 – Fundamentals of Chemical Dependency	3.0
AOD 2 – Pharmacology and Physiology of AOD	3.0
AOD 3 – Intro to Case Management and Treatment Planning	3.0
AOD 4 – Counseling Diverse Populations	3.0
AOD 5 – Legal/Ethical Considerations & Professional Growth	3.0
AOD 6 – Prevention, Education, and Relapse Prevention	3.0
AOD 7 – Individual, Group, and Family Counseling	3.0
AOD 9 – Co Occurring Disorders	

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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 detailed

See the certificate program cost and the employment outlook for graduates by clicking the link below:
<https://www.hartnell.edu/aca>

ADJ 1 – Introduction to Administration of Justice	3.0
ADJ 2 – Community Relation & the Justice System	3.0
ADJ 3 – Concepts of Criminal Law	3.0
ADJ 4 – Criminal Evidence	3.0
ADJ 5 – Criminal Court Process	3.0
ADJ 11 – Law Enforcement Report Writing	3.0
ADJ 21A – Narcotics and Dangerous Drugs	3.0
ENG 1A – College Composition and Reading	3.0
MAT 106* – Integrated Mathematics	3.0

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The Advanced

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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

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Student Engineering \$E\$4R TôÂ-003>5# OTf 0.0

ADT 100 – Diesel Engine Technology	4.0
ADT 101 – Diesel Engine Rebuild	4.0
ADT 110 – Electrical and Electronic Systems	4.0
ADT 111 – Electrical Systems and Controls	4.0
ADT 120 – Climate Control	4.0
ADT 121 – Preventative Maintenance	4.0
ADT 130 – Brake Systems	4.0
ADT 131 – Steering and Suspension Systems	4.0
ADT 140 – Power Drivetrain	4.0
ADT 141 – Automatic Transmissions	4.0
BUS 43 – Business Info Systems and Info Literacy	4.0
 BUS 50 – Introduction	 4.0

ABT 90 – Soil Science	3.0
ABT 53 – Agribusiness Economics	3.0
ABT 58 – Agriculture Laws and Regulations	3.0
ECO 1 – Principles of Macroeconomics	3.0
MAT 13 – Elementary Statistics	5.0
ABT 49 – Introduction Agriculture Business	3.0
ABT 52 – Sales & Service in Agribusiness	3.0
ABT 57 – Agriculture Computer Applications	3.0
ABT 92 – Plant Science	3.0

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The Associate

ABT 90 – Soil Science	3.0
CHM 22 – Introduction to Chemistry	4.0
CHM 1A – General Chemistry	5.0
ABT 53 – Agribusiness Economics	3.0
ECO 5 – Principles of Microeconomics	3.0
MAT 13 – Elementary Statistics	5.0
ABT 92 – Plant Science	3.0
MFGT 100 – Principles of Manufacturing	3.0

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The Associate of Science degree in Agriculture is intended for students

: Upon successful completion of this program a student will be able to:
 § describe and employ current

See the certificate program cost and the employment outlook for graduates by clicking the link below:
<https://www.hartnell.edu/academicaffairs/gecp/>

ABT 110 – Careers in Agriculture and Technology	2.0
ABT 49 – Introduction to Agriculture Business	3.0
ABT 54 – Agriculture Marketing	3.0
ABT 58 – Agriculture Laws & Regulations	3.0
ABT 90 – Soil Science	3.0
ABT 92 – Plant Science	3.0
ABT 99 – Cooperative Work Experience	1.0 3.0
ABT 57 – Agriculture Computer Applications	3.0
BUS 43 – Business Info Systems and Info Literacy	4.0
BUS 50 – Introduction to PC Applications	4.0
ABT 52 – Sales & Services in Agribusiness	3.0
ABT 53 – Agribusiness Economic	3.0
ECO 5 – Principles of Microeconomics	
ABT 80 – Introduction to Sustainable Agriculture & Food	3.0
ABT 160 – Introduction to Agriculture	3.0
BUS 1A – Financial Accounting	4.0
BUS 18 – The Legal Environment of Business	3.0
ENG 101* – Intermediate Composition and Reading	3.0
ESL 101* – Academic Writing and Reading II	5.0
MAT 121** – Elementary Algebra	5.0

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

See the certificate program
cost and the employment program

ABT 58 – Agriculture Laws and Regulations	3.0
ABT 130 – Introduction to Food Safety	1.5
ABT 131 – Agricultural Practices for Food Safety	1.5
ABT 132 – Food Safety Management	1.5
ABT 133 – Facility Management for Food Safety	1.5
ABT 134 – Environmental Effects on Food Borne	1.5
ABT 135 – Introduction to Food Microbiology	1.5
ENG 101* – Intermediate Composition and Reading	3.0
ESL 101* – Academic Writing and Reading II	5.0
MAT 106** – Integrated Mathematics	3.0

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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 be a n d

: 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.

AST 1 – Introduction to Astronomy	3.0
AST 1L – Astronomy Laboratory	1.0
PHY 4A – General Physics I/Mechanics	4.0
PHY 4B – General Physics II/Electricity and Magnetism	4.0
PHY 4C – General Physics III/ Waves, Heat and Modern Physics	4.0
MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0
MAT 3C – Analytic Geometry and Calculus III	4.0
MAT 4 – Linear Algebra	3.0
MAT 5 – Differential Equations	3.0
CHM 1A – General Chemistry I	5.0
CSS 1 – Introduction to Computer Science and Programming	4.0
CSS 4 – Introduction to Scientific Programming	4.0

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.

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The Basic English Certificate of Competency is awarded with successful completion of ESL 610, 615, 620, and 625. This noncredit program is intended for non native speakers of English, with the focus on

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

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

- f* 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.

BIO 1 – Fundamental Biological Concepts	5.0
BIO 2 – Community Relation and the Justice System	5.0
BIO 3 – Concepts of Criminal Law	5.0
CHM 1A – General Chemistry	5.0
CHM 1B – General Chemistry	5.0
MAT 13 – Elementary Statistics	5.0
MAT 25 – Pre Calculus	4.0
PHY 2A/2B – College Physics	8.0
PHY 4A/4B/4C – General Physics	12.0
CHM 12A – Organic Chemistry I	5.0
CHM 12B – Organic Chemistry II	5.0
MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0
MAT 3C – Analytic Geometry and Calculus III	4.0

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.

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The Associate in Science in Business Administration for Transfer degree aligns with the CSU Bachelor of Science in Business Administration. The Associate in Science in Business Administration 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 Business Administration. This includes four year business degrees with options such as accounting, finance, human resources management, international business, management (busin)4(ess,)JT21TfTT21Tf0.0005Tc27.881.404Tc27.814oitinTc(ess,)JBate

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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.

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.

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

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

BUS 50 – Introduction to PC Applications	4.0
BUS 110 – Beginning Keyboarding and Formatting	2.0
BUS 131 Business English	3.0
BUS 151 – Business Math	3.0
BUS 135 – Professional Office skills	4.0
BUS 172 – Machine Calculations	1.0

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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	3.0

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

: 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.

BUS 50 – Introduction to PC Applications 4.0
 BUS 110 – Beginning Keyboarding & Document Formatting 3.0

BUS 110A – Beginning Keyboarding 1.0

BUS 110B – Beginning Formatting and Document Processing 2.0

BUS 128 – Professionalism in the Workplace 2.0

BUS 129 – Practical Customer Service Skills 2.0

BUS 131 – Business English 3.0

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 101* – Intermediate Composition and Reading 3.0

ESL 101 – Academic Writing and Reading II 5.0

BUS 151** – Business Mathematics 3.0

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

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 class fulfills this requirement.

BUS 50 – Introduction to PC Applications	4.0
BUS 111 – Intermediate Office Skills	3.0
BUS 128 – Professionalism in the Workplace	2.0
BUS 129 – Practical Customer Service Skills	2.0
BUS 131 – Business English	3.0
BUS 140A & B – Keyboarding Speed and Accuracy	1.0
BUS 150.15 – Word Processing	3.0
BUS 172 – Business Machine Calculations	1.0
BUS 173 – Filing Procedures and Records Management	3.0
BUS 177 – Proofreading and Editing Skills	3.0
BUS 190 – Career Management	
	3.0

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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.

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

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.

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

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

CHM 1A – General Chemistry I	5.0
CHM 1B – General Chemistry II	5.0
CHM 12A – Organic Chemistry I	5.0
CHM 12B – Organic Chemistry II	5.0
PHY 4A – General Physics/Mechanics	4.0
PHY 4B – General Physics/Electricity & Magnetism	4.0
MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0
MAT 3C – Analytic Geometry and Calculus III	4.0
MAT 4 – Linear Algebra	3.0
MAT 5 – Differential Equations	3.0
PHY 4C – General Physics/Waves, Heat, Light	4.0

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Physics, Waves, Students

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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

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CSS 2A – Object Oriented Programming	4.0
CSS 2B – Data Structures and Algorithms	4.0
CSS 3 – Computer Architecture and Assembly	4.0
CSS 7 – Discrete Structures	4.0
MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0

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CSS 1 – Introduction to Computer Science and Programming Fundamentals 4.0
CSS 2A – Object Oriented Programming

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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

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https://www.hartnell.edu/students/fa/net_price_calculator.html

CSS 1 – Introduction to Computer Science and Programming	3.0
CSS 2A – Object Oriented Programming	4.0
CSS 2B – Data Structures Algorithms	4.0
CSS 3 – Computer Architecture and Assembly Language	4.0
CSS 7 – Discrete Structures	4.0
CSS 120A – Introduction to Networks	4.0
CSS 122 – Computer Security Principles	4.0
CSS 125 – Storage Management and Virtualization	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0
ENG 101* – Intermediate Composition and Reading	3.0
ESL 101* – Academic Writing & Reading II	5.0
MAT 123** – Intermediate Algebra	5.0

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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.

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

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.

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

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

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

BUS 32 – Introduction to Business	3.0
CSS 25 – Multimedia Integration	3.0
CSS 27 – Project Management using Microsoft Project	4.0
CSS 64 – HTML 5 and CSS3 – Web Development	4.0
CSS 76 – Android App Development Using Java	4.0
CSS 65 – Introduction IOS App Development	4.0
ENG 101* – Intermediate Composition and Reading	3.0
ESL 101* – Academic Writing & Reading II	5.0
MAT 123** – Intermediate Algebra	5.0

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

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

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The Associate of Science in Computer Science and Information Systems Network and Security Option prepares students for

CSS 1 – Introduction to Computer Science & Programming Fundamentals 4.0
CSS W

CSS 1 – Introduction to Computer Science and

CMA 51 – Introduction to Construction Management and Architecture	3.0
CMA 55 – Introduction to Structural Design and Codes	3.0
CMA 57 – Construction Law and Contracts	3.0
CMA 61 – Construction Field Practice: Layout, Foundations & Framing	4.0
CMA 62 – Construction Field Practice: Exterior and Interior Finish	4.0
CMA 81 – Computer Aided Drafting and Design I	3.0
CMA 52, 53, 54, 56, 91	15.0
CMA 70, 71, 72, 82, 83	15.0
CMA 63, 64, 65, 66, 84, 90, EGN 11	3.0
CMA 53, 84, 90, 91, EGN 11	3.0

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	Complete 2-courses from ART 12A, ART 78, ART 84, and PHO 1
	Complete 2 courses from PHO 1, PHO 2, ART 12A, and ART 84
	Complete 2 courses from ART 73, ART 3, ART 13 and ART 84

ART 70 – Introduction to Graphic Design/Computer Graphics
 ART 71 – Introduction to 2D Digital Illustration
 ART 72 – Introduction to Digital Arts
 ART 74 – Digital 3D Design and Modeling
 ART 76 – Introduction to 3D Digital Animation
 ART 77 – Introduction to Digital Video and Video Editing

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ART 70 – Introduction to Graphic

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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 cate

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Teacher Assistant	Requires any 6 ECE units
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Associate Teacher	Requires 12 core ECE units (ECE 1, ECE 2, ECE 4, ECE 6) and 50 days of experience at 3+ g+6 (rm9087601104434)TT11Tf0.0002Tc2.76708Td(Re
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See the certificate program
cost and the ~~0701 (A) 701 (B) 701 (C) 701 (D) 701 (E) 701 (F) 701 (G) 701 (H) 701 (I) 701 (J) 701 (K) 701 (L) 701 (M) 701 (N) 701 (O) 701 (P) 701 (Q) 701 (R) 701 (S) 701 (T) 701 (U) 701 (V) 701 (W) 701 (X) 701 (Y) 701 (Z) 701 (AA) 701 (AB) 701 (AC) 701 (AD) 701 (AE) 701 (AF) 701 (AG) 701 (AH) 701 (AI) 701 (AJ) 701 (AK) 701 (AL) 701 (AM) 701 (AN) 701 (AO) 701 (AP) 701 (AQ) 701 (AR) 701 (AS) 701 (AT) 701 (AU) 701 (AV) 701 (AW) 701 (AX) 701 (AY) 701 (AZ) 701 (BA) 701 (BB) 701 (BC) 701 (BD) 701 (BE) 701 (BF) 701 (BG) 701 (BH) 701 (BI) 701 (BJ) 701 (BK) 701 (BL) 701 (BM) 701 (BN) 701 (BO) 701 (BP) 701 (BQ) 701 (BR) 701 (BS) 701 (BT) 701 (BU) 701 (BV) 701 (BW) 701 (BX) 701 (BY) 701 (BZ) 701 (CA) 701 (CB) 701 (CC) 701 (CD) 701 (CE) 701 (CF) 701 (CG) 701 (CH) 701 (CI) 701 (CJ) 701 (CK) 701 (CL) 701 (CM) 701 (CN) 701 (CO) 701 (CP) 701 (CQ) 701 (CR) 701 (CS) 701 (CT) 701 (CU) 701 (CV) 701 (CW) 701 (CX) 701 (CY) 701 (CZ) 701 (DA) 701 (DB) 701 (DC) 701 (DD) 701 (DE) 701 (DF) 701 (DG) 701 (DH) 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701 (QE) 701 (QF) 701 (QG) 701 (QH) 701 (QI) 701 (QJ) 701 (QK) 701 (QL) 701 (QM) 701 (QN) 701 (QO) 701 (QP) 701 (QQ) 701 (QR) 701 (QS) 701 (QT) 701 (QU) 701 (QV) 701 (QW) 701 (QX) 701 (QY) 701 (QZ) 701 (RA) 701 (RB) 701 (RC) 701 (RD) 701 (RE) 701 (RF) 701 (RG) 701 (RH) 701 (RI) 701 (RJ) 701 (RK) 701 (RL) 701 (RM) 701 (RN) 701 (RO) 701 (RP) 701 (RQ) 701 (RR) 701 (RS) 701 (RT) 701 (RU) 701 (RV) 701 (RW) 701 (RX) 701 (RY) 701 (RZ) 701 (SA) 701 (SB) 701 (SC) 701 (SD) 701 (SE) 701 (SF) 701 (SG) 701 (SH) 701 (SI) 701 (SJ) 701 (SK) 701 (SL) 701 (SM) 701 (SN) 701 (SO) 701 (SP) 701 (SQ) 701 (SR) 701 (SS) 701 (ST) 701 (SU) 701 (SV) 701 (SW) 701 (SX) 701 (SY) 701 (SZ) 701 (TA) 701 (TB) 701 (TC) 701 (TD) 701 (TE) 701 (TF) 701 (TG) 701 (TH) 701 (TI) 701 (TJ) 701 (TK) 701 (TL) 701 (TM) 701 (TN) 701 (TO) 701 (TP) 701 (TQ) 701 (TR) 701 (TS) 701 (TT) 701 (TU) 701 (TV) 701 (TW) 701 (TX) 701 (TY) 701 (TZ) 701 (UA) 701 (UB) 701 (UC) 701 (UD) 701 (UE) 701 (UF) 701 (UG) 701 (UH) 701 (UI) 701 (UJ) 701 (UK) 701 (UL) 701 (UM) 701 (UN) 701 (UO) 701 (UP) 701 (UQ) 701 (UR) 701 (US) 701 (UT) 701 (UU) 701 (UV) 701 (UW) 701 (UX) 701 (UY) 701 (UZ) 701 (VA) 701 (VB) 701 (VC) 701 (VD) 701 (VE) 701 (VF) 701 (VG) 701 (VH) 701 (VI) 701 (VJ) 701 (VK) 701 (VL) 701 (VM) 701 (VN) 701 (VO) 701 (VP) 701 (VQ) 701 (VR) 701 (VS) 701 (VT) 701 (VU) 701 (VV) 701 (VW) 701 (VX) 701 (VY) 701 (VZ) 701 (WA) 701 (WB) 701 (WC) 701 (WD) 701 (WE) 701 (WF) 701 (WG) 701 (WH) 701 (WI) 701 (WJ) 701 (WK) 701 (WL) 701 (WM) 701 (WN) 701 (WO) 701 (WP) 701 (WQ) 701 (WR) 701 (WS) 701 (WT) 701 (WU) 701 (WV) 701 (WW) 701 (WX) 701 (WY) 701 (WZ) 701 (XA) 701 (XB) 701 (XC) 701 (XD) 701 (XE) 701 (XF) 701 (XG) 701 (XH) 701 (XI) 701 (XJ) 701 (XK) 701 (XL) 701 (XM) 701 (XN) 701 (XO) 701 (XP) 701 (XQ) 701 (XR) 701 (XS) 701 (XT) 701 (XU) 701 (XV) 701 (XW) 701 (XX) 701 (XY) 701 (XZ) 701 (YA) 701 (YB) 701 (YC) 701 (YD) 701 (YE) 701 (YF) 701 (YG) 701 (YH) 701 (YI) 701 (YJ) 701 (YK) 701 (YL) 701 (YM) 701 (YN) 701 (YO) 701 (YP) 701 (YQ) 701 (YR) 701 (YS) 701 (YT) 701 (YU) 701 (YV) 701 (YW) 701 (YX) 701 (YY) 701 (YZ) 701 (ZA) 701 (ZB) 701 (ZC) 701 (ZD) 701 (ZE) 701 (ZF) 701 (ZG) 701 (ZH) 701 (ZI) 701 (ZJ) 701 (ZK) 701 (ZL) 701 (ZM) 701 (ZN) 701 (ZO) 701 (ZP) 701 (ZQ) 701 (ZR) 701 (ZS) 701 (ZT) 701 (ZU) 701 (ZV) 701 (ZW) 701 (ZX) 701 (ZY) 701 (ZZ)~~

ECE 1 – Principles and Practices of Teaching Young Children	1.0
ECE 2 – Child, Family, School & Community Relations	3.0
ECE 4 – Introduction to Curriculum	3.0
ECE 6 – Child Growth & Development	3.0
ECE 10 – Observation and Assessment	3.0
ECE 12 – Practicum: Field Teaching Experience	4.0
ECE 19 – Health, Safety and Nutrition in ECE Programs	3.0
ECE 53 – Teaching in a Diverse Society	3.0
ENG 101* – Intermediate Composition and Reading	3.0
ESL 101* – Academic Writing & Reading II	5.0
MAT 106** – Integrated Mathematics	3.0

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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.

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 foS6Tj /TT2 14npct2tor

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

: 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.

ECO 1 – Principles of Macroeconomics	3.0
ECO 5 – Principles of Microeconomics	3.0
MAT 2 – Calculus for Managerial Life, & Social Science	4.0
MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 13 – Elementary Statistics	5.0
BUS 1A – Financial Accounting	4.0
BUS 1B – Managerial Accounting	4.0
BUS 43 – Business Info Systems & Info Literacy	4.0
ECO 10 – Introduction to Economics	3.0
MAT 3B – Analytic Geometry and Calculus II	4.0
MAT 16 – Finite Mathematics	3.0
Any list A courses not already used	3.0 4.0
MAT 3C – Analytic Geometry and Calculus II	4.0
MAT 4 – Linear Algebra	4.0

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" grade in all courses.

emphases

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.

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B

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

- § 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 .

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tional

F BIO 10 – General Biology	4.0
F COM 1 – Introduction to Public Speaking	3.0
F EDU 1 – Introduction to Education in a Changing World	3.0
F ENG 1A – College Composition and Reading	3.0
F ENG 1B – College Literature and Writing	3.0
F ENG 2 – Critical Thinking and Writing	3.0
F ECE 6 – Child Development	3.0
F GEG 10 – Geography and World Affairs	3.0
F GEL 1 – Physical Geology	4.0
F HIS 5A World History A	3.0
F HIS 17A – United States History A	3.0
F MAT 12 – Number Systems	3.0
F POL 1 – American Political Institutions	3.0
F PHY 32 – Survey of Chemistry and Physics	4.0
F CHM 22 – The Science of Chemistry	8.0
PHY 10 – Introduction to Physics	
F ART 10 – Art Appreciation	3.0
F MUS 1A – Music Appreciation Historical Perspective	3.0
F TAC 1 – Introduction to Theatre	3.0

Students must complete one of the following General Education Plans:

(see page 63)

(see page 65)

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.

ENGINEERING (AS.EGN)

ASSOCIATE OF SCIENCE

SELECT ONE EMPHASIS TO FOLLOW

Units Mechanical/
Aerospace/

ENGLISH

PROGRAM

f 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, and publishing.

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ENGLISH(AA.T.ENG)

ASSOCIATION ARTS FOR TRANSFER

Required Major Courses (6 units)

F ENGr1B- College Literature and Composition	3.0
F ENGr2- Critical Thinking and Writings	3.0

Major Electives A (Complete 9 units)

F ENGr22- Studies of Poetry		3.0
F ENGr24- The Short Story		3.0
F ENGr31- Beginning creative Writing	3.0	
F ENGr44A- World Literature I	3.0	
F ENGr44B- World Literature II	3.0	
F ENGr46A- Survey of British Literature I	3.0	
F ENGr46B- Survey of British Literature II	3.0	
F ENGr47A- Survey of American Literature I	3.0	
F ENGr47B- Survey of American Literature II	3.0	

Major Electives B (Complete 3 units)

F ENGr17- The Contemporary Shakespeare	3.0	
F ENGr26- Chic and Literature	3.0	
F ENGr41- Art of Steinbeck		3.0
F ENGr48- 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 63)	units	39
IGETC (see page 65)	units	37

Students can double count required courses and courses for General Education

Electives (Courses Numbered 1-99) required by the following transferable courses: ENGL 101, ENGL 102, ENGL 103, ENGL 104, ENGL 105, ENGL 106, ENGL 107, ENGL 108, ENGL 109, ENGL 110, ENGL 111, ENGL 112, ENGL 113, ENGL 114, ENGL 115, ENGL 116, ENGL 117, ENGL 118, ENGL 119, ENGL 120, ENGL 121, ENGL 122, ENGL 123, ENGL 124, ENGL 125, ENGL 126, ENGL 127, ENGL 128, ENGL 129, ENGL 130, ENGL 131, ENGL 132, ENGL 133, ENGL 134, ENGL 135, ENGL 136, ENGL 137, ENGL 138, ENGL 139, ENGL 140, ENGL 141, ENGL 142, ENGL 143, ENGL 144, ENGL 145, ENGL 146, ENGL 147, ENGL 148, ENGL 149, ENGL 150, ENGL 151, ENGL 152, ENGL 153, ENGL 154, ENGL 155, ENGL 156, ENGL 157, ENGL 158, ENGL 159, ENGL 160, ENGL 161, ENGL 162, ENGL 163, ENGL 164, ENGL 165, ENGL 166, ENGL 167, ENGL 168, ENGL 169, ENGL 170, ENGL 171, ENGL 172, ENGL 173, ENGL 174, ENGL 175, ENGL 176, ENGL 177, ENGL 178, ENGL 179, ENGL 180, ENGL 181, ENGL 182, ENGL 183, ENGL 184, ENGL 185, ENGL 186, ENGL 187, ENGL 188, ENGL 189, ENGL 190, ENGL 191, ENGL 192, ENGL 193, ENGL 194, ENGL 195, ENGL 196, ENGL 197, ENGL 198, ENGL 199

GENERAL STUDIES WITH AN AREA OF EMPHASIS

PROGRAMS

f 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, Social and Behavioral Sciences, Humanities, Ethnic Groups in the United States, or Language and Rationality).

The degree prepares the student for the following:

- x 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
- x the completion of a major leading to a two year college degree
- x a solid beginning in the transfer planning process through careful educational planning with a counselor

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

TRANSFER PREPARATION

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

TRANSFER RESOURCES

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

CSU System Information r
<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

GENERAL STUDIES WITH AN AREA OF EMPHASIS

ASSOCIATE ARTS

CHOOSE A SINGLE AREA OF EMPHASIS. Complete 18 units in one of the areas of emphasis listed below:	
<ul style="list-style-type: none"> F Natural Sciences F Social and Behavioral Science F Humanities 	<ul style="list-style-type: none"> F Ethnic Groups in the US F Language and Rationality

F Areas of Emphasis Natural Sciences (AA.GSN)
<p>Courses in natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Students will develop an appreciation and understanding of the scientific method and an understanding of the relationships between science and other human activities.</p>
<p>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. Chemistry: 900, 900, 90,</p>

F Agriculture: ABT 0, 0.0 479.16 481.74 0.48 re 399.48 81.74 0.44 0.48 76 f 5399.48 81.74 0.44 0.48 re f 5399.4

CON'T

GEOLOGY

PROGRAM

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

DESCRIPTION

The Associate in Science degree in Geology for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate geology degree programs at a California State University (CSU) campus. This degree provides the lower division geology major courses required at many CSUs while exposing students to the core principles and practices of the geology

GEOLOGY (AST.GEL)

ASSOCIATION SCIENCE PORT TRANSFER

Required Major Courses (26 units)

F GELr1- Physical Geology		4.0
F GELr6- History of the Earth		4.0
F CHMr1A- General Chemistry I	5.0	
F CHMr1B- General Chemistry II	5.0	
F MAT r3A- Analytic Geometry and Calculus	4.0	
F MAT r3B- Analytic Geometry and Calculus I	4.0	

SUBTOTAL 26 UNITS

General Education - Required Courses

Students must complete "m-Â Â~Â ö`

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HISTORY

PROGRAM

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

DESCRIPTION

History, in the broad sense, is the study of all human experience. It examines people, institutions, 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.

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 on a 0.8A (1/27/2019)

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

HISTORY (AAT.HIS)

ASSOCIATION OF ARTS FOR TRANSFER

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

PROGRAM

f Certificate of Achievement

DESCRIPTION

The Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC) developed by the Counseling Discipline will be awarded upon completion of the IGETC requirements as outlined on the catalog year's IGETC sheet. Students must complete 34-37 units, which are distributed among six areas. IGETC requirements are designed to be taken with a major area of concentration and elective courses in preparation for transfer to a California State University or a University of California campus. This certificate recognizes the completion of lower division general education

KINESIOLOGY

PROGRAMS

- f* Associate in Arts for Transfer (A.S.π)
- f* Associate of Science (A.S.)

KINESIOLOGY (KIN)

ASSOCIATION ARTS FOR TRANSFER

Required Major Courses (12 units)

F BIOR5- Human Anatomy		4.0
F BIOR6- Introductory Physiology	3.0	
F BIOR6L- Physiology Lab		2.0
F PETH1- Introduction to Kinesiology	3.0	

Major Movement Courses Select at least (1) course from any (3) of the following areas for a Minimum of 3 units.

F AQUATIC SPEAG61	1.5
F COMBATIVE SPEAG56	2.0
F FITNESS SPEAG32, 58, 66, 69	0.5 r 2.0
F INDIVIDUAL SPORT SPEAG64	1.0 r 1.5
F TEAM SPORT SPEAG52, 55, 70	1.5

Major Electives (Complete 7 units)

F MAT 13- Elementary Statistics	5.0
F CHM 1A- General Chemistry	5.0
F HED 55- Health	

KINESIOLOGY (KIN)

ASSOCIATE OF SCIENCE

Required Major Courses (16 units)

F HED6 – Multicultural Health Beliefs	3.0
F NUTR1 – Nutrition	3.0
F PETH1 – Introduction to Kinesiology	3.0
F PETH2 – Care and Prevention of Athletic Injuries	4.0
F PSY2 – General Psychology	3.0

Required Major Courses (Complete 4 from A-D) (8 units)

F BIO5 – Human Anatomy	4.0
F BIO6 and BIO6L – Introductory Physiology	5.0
F BIOR or BIOR	0

LIBERAL ARTS WITH AN AREA OF EMPHASIS

ASSOCIATE ARTS

1. Choose the General Education

CON'TOFLIBERAARTSWITHANAREAOFEMPHASIS

Areas of Emphasis Humanities (AA.LAHU)

CON'TOFLIBERAARTSWITHANAREAOFEMPHASIS

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>	
REQUIRE MAJOR COURSES	
	Economics ECO1, 5, 10
	History: HIS4A, 4B, 5A, 5B, 17A, 17B
	Pathway to Law: LAW41, 42
	Mathematics: MAT13, 18, 2
	Political Science POL1, 2, 3, 5, 6

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>	
REQUIRE MAJOR COURSES	
	Anthropology: ANT1, 2
	Biology: BIO1, 5, 10, 11
	Mathematics: MAT13, 2, 18
	Psychology PSY2, 6, 10, 12, 14, 15, 22, 25, 33
	Sociology SOCI, 5, 15, 20, 30, 41, 42

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>	

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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.

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

CMA 74 – Industrial Drawing and Print Reading	3.0
MFGT 70 – Introduction to Mechanized Agriculture	3.0
MFGT 130 – Introduction to Metal Fabrication	3.0
MFGT 140 – Introduction to Industrial Hydraulics and Pneumatics	2.0
MFGT 150 – Introduction to Industrial Electricity	2.0
MFGT 169 – Hazmat and Industrial Safety	2.0
MFGT 180 – Industrial Workplace Skills	1.0
WLD 150 – Basic Welding	3.0
MFGT 131 – Intermediate Metal Fabrication	3.0
MFGT 141 – Intermediate Industrial Hydraulics and Pneumatics	2.0
MFGT 151 – Intermediate Industrial Electricity	2.0
CMA 75 – Engineering Drawing and Solidworks	3.0
CMA 76 – Computer Aided Mechanical Drafting and Detailing	3.0
CMA 81 – Computer Aided Drafting and Design I	3.0
MFGT 71 – Agricultural and Industrial Equipment Operation	3.0
MFGT 75 – Agriculture Machinery and Management	3.0
MFGT 132 – Advanced Metal Fabrication	3.0
WLD 151 – Introduction to GTAW/TIG Welding	3.0
WLD 152 – Sheet Metal Fabrication	2.0

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.

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.

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

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

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- § 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

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

MAT 3A – Analytic Geometry and Calculus I	4.0
MAT 3B – Analytic Geometry and Calculus II	4.0
MAT 3C – Analytic Geometry and Calculus III	4.0

MAT 4 – Linear Algebra	3.0
MAT 5 – Differential Equations	3.0

MAT 4 – Linear Algebra	3.0
MAT 5 – Differential Equations	3.0
MAT 13 – Elementary Statistics	5.0
CSS 2A – Object Oriented Programming	4.0
PHY 4A – General Physics I/Mechanics	4.0

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MUS 11 – Applied Music Instrumental	2.0
<i>(MUS 11 Course must be taken four times)</i>	
MUS 46 – Music Theory and Musicianship I	4.0
MUS 47 – Music Theory and Musicianship II	4.0
MUS 48 – Music Theory and Musicianship III	4.0
MUS 49 – Music Theory and Musicianship IV	4.0
MUS 20 – Hartnell College Choir	1.0
MUS 21 – Hartnell Chamber Singers	1.0
MUS 23.1 – Hartnell Chorale – Renaissance/Baroque	1.0
MUS 23.2 – Hartnell Chorale – Classical/Romantic	1.0
MUS 23.3 – Hartnell Chorale – 20 th Century	1.0
MUS 23.4 – Hartnell Chorale – 20 th Century “Pops”	1.0
MUS 23.5 – Hartnell Chorale – 21 st Century	1.0
MUS 24 – Estudiantina Hartnell	1.0
MUS 26 – Jazz Ensemble	1.0

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

§ analyze the harmonic structure of music from the Common Practice Period.

§ sign the harmonic structure of music from the Common Practice Period.

MUS 1A – Music Appreciation – Historical	3.0
MUS 2 – Music Fundamentals	3.0
MUS 11 – Applied Music Instrumental	2.0
<i>(MUS 11 Course must be taken four times)</i>	
MUS 13A – Beginning Piano I	1.0
MUS 13B – Beginning Piano II	1.0
MUS 14 – Intermediate Piano	1.0
MUS 15 – Advanced Piano	1.0
MUS 42 – Electronic Music	3.0
MUS 46 – Music Theory and Musicianship I	4.0
MUS 47 – Music Theory and Musicianship II	4.0
MUS 48 – Music Theory and Musicianship III	4.0
MUS 49 – Music Theory and Musicianship IV	4.0
MUS 20 – Hartnell College Choir	1.0
MUS 21 – Hartnell Chamber Singers	1.0
MUS 23.1 – Hartnell Chorale – Renaissance/Baroque	1.0
MUS 23.2 – Hartnell Chorale – Classical/Romantic	1.0
MUS 23.3 – Hartnell Chorale – 20 th Century	1.0
MUS 23.4 – Hartnell Chorale – 20 th Century “Pops”	1.0
MUS 23.5 – Hartnell Chorale – 21 st Century	1.0
MUS 24 – Estudiantina Hartnell	1.0
MUS 26 – Jazz Ensemble	1.0
MUS 36 – Jazz Combo	1.0
MUS 37 – Chamber Music Ensemble	1.0

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.

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

NRN 42 – Nursing Theory II	4.0
NRN 42.1 – Nursing Clinical II	4.0
NRN 42.2 – Clinical Reasoning Seminar II	1.0
NRN 42.3 – Nursing Skills Lab II	1.0

NRN 43 – Nursing Theory III	4.0
NRN 43.1 – Nursing Clinical III	4.0
NRN 43.2 – Clinical Reasoning Seminar III	0.5
NRN 43.3 – Nursing Skills Lab III	1.0

NRN 44 – Nursing Theory IV	4.0
NRN 44.1 – Nursing Clinical IV	4.0
NRN 44.2 – Clinical Reasoning Seminar IV	0.5

NRN 50.41 – Supervised Nursing Skills Practice I	0.5
NRN 50.42 – Supervised Nursing Skills Practice II	0.5
NRN 50.43 – Supervised Nursing Skills Practice III	0.5
NRN 50.44 – Supervised Nursing Skills Practice IV	0.5

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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 (BVN/PT) and is the first vocational nursing program in California to earn Accreditation Commission for Education in Nursing.

-
- § Home Health Care Provider
 - § Nursing Technician
 - § Nursing Assistant and Orderly
 - § Occupational

The VN Program requires separate application

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

- f* 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

ENG 1A – College Composition and Reading	3.0
MAT 121 – Elementary Algebra	(5.0)
MAT 106 – Integrated Mathematics	(3.0)
HES 120 ¹ – AHS Basic Life Support for HCP	0.5
BIO 11 – Intro to Human Anatomy & Physiology	4.0
BIO 5* – Human Anatomy	4.0
BIO 6* – Introductory Physiology	3.0
BIO 6L* – Physiology Lab	2.0
PSY 2 – General Psychology	3.0
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NUTR 51* – Essential of Nutrition	3.0
OR	
NUTR 1 – Nutrition	3.0
NRN/NVN 70* – Growth & Development Across the Lifespan	3.0
OR	
PSY 25 – Developmental Psychology: Lifespan	3.0
NVN 110 – Foundations For Success for VN Students	1.0
NVN 119 – Vocational Nursing Theory I: Fundamentals	4.0
NVN 119.1 – Vocational Nursing Clinical I: Fundamentals	4.0
NVN 130A – Basic Pharmacology B	1.0

NVN 121 – Vocational Nursing Theory II	7.0
NVN 121.1 – Vocational Nursing Clinical II	6.0
NVN 130B – Basic Pharmacology B	1.0

NVN 123 – Vocational Nursing Theory II	6.0
NVN 123.1 – Vocational Nursing Clinical III	7.0
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.

¹AHA BLS Health Care Professional card must be current throughout program. Not required to apply. Must be completed prior to NVN 119.

NVN 150.1 – Supervised Vocational Nursing Skill

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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.

A

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.

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

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- § 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

PHO 1 – Introduction to Photography	3.0
PHO 2 – Beginning Black and White Photography	3.0
PHO 3 – Advanced Photography Lab	3.0
PHO 4 – Portfolio Photography	3.0
ART 12A – Design	3.0
ART 72 – Introduction to Digital Arts	3.0
ART 80 – Intro to Digital Photography & Photographic Imaging	3.0
ART 1A – Art History Survey I	3.0
ART 1B – Art History Survey II	3.0
ART 3 – Drawing and Composition	3.0
ART 6A – Watercolor and Gouache	3.0
ART 6B – Oils	3.0
ART 6C – Acrylics	3.0
ART 10 – Art Appreciation	3.0
ART 70 – Graphic Design/Computer Graphics	3.0
ART 71 – Introduction to 2D digital Illustration	3.0
ART 77 – Introduction Illustration	

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

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Physics is the natural sciencescience

PHY 4A – General Physics I/Mechanics 4.0

PHY 4B – General Physics II/Electricity and Magnetism 4.0

PHY 4C – General Physics III/Waves, Heat, Light, Sound and Modern Physics 4.0

MAT 3A – Analytic Geometry and Calculus 4.0

§

The Associate in Arts

POL 1 – American Political Institution	3.0
POL 2 – Contemporary Governments Abroad	3.0
POL 3 – Introduction to International relations	3.0
POL 6 – Introduction to Contemporary Political Thought	3.0
MAT 13 – Elementary Statistics	5.0
ECO 1 – Principles of Macroeconomics	3.0
ECO 5 – Principles of Microeconomics	3.0
ETH 1 – Introduction to Ethnic Studies	3.0
POL 5 – Chicano Politics & American Political System	3.0
SOC 1 – Introduction to Sociology	3.0

: 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.

MAT 13 – Elementary Statistics	5.0
PSY 2 – General Psychology	3.0
PSY 9 – Research Methods in Psychology	4.0
PSY 10 – Introduction to Biological Psychology	3.0
PSY 14 – Child Psychology	3.0
PSY 25 – Developmental Psychology –Lifespan	3.0
PSY 6 – Social Psychology	3.0
PSY 15 – Human Sexuality	3.0
PSY 22 – Abnormal Psychology	3.0

***Students can double count required courses and courses for General Education
Electives (Courses Numbered 1 99) required when degree units plus GE units total fewer than 60.***



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

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.

PSY 2 – General Psychology	3.0
PSY 6 – Social Psychology	3.0
PSY 9 – Research Methods in Psychology	4.0
PSY 10 – Introduction to Biological Psychology	3.0
PSY 12 – Theories of Personality	3.0
PSY 22 – Abnormal Psychology	3.0
MAT 2 – Calculus for Managerial, Life and Social Science	4.0
MAT 13 – Elementary Statistics	5.0
PSY 14 – Child Psychology	3.0
PSY 25 – Developmental Psychology – Lifespan	3.0
PSY 15 – Human Sexuality	3.0
PSY 42 – Psychology for Women	3.0

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F	BIO r5- Human Anatomy		4.0
F	BIO r6- Introductory Physiology	3.0	
F	BIO r6L- Physiology Laboratory	2.0	
F	BIO r10- General Biology		4.0
F	CHM r1A- The General Chemistry I	5.0	
	CHM r22- The		

RESPIRATORY CARE PRACTITIONER

PROGRAM

f Associate of Science (A.S.)

DESCRIPTION

The Hartnell College Respiratory Care Practitioner (RCP) program is a defined group of prerequisite and corequisite courses. The four semester course of study consisting of classroom, high fidelity simulation, skills laboratory, seminar, and clinical experiences. Clinical

TRANSFER

RESPIRATORY CARE PRACTITIONER

ASSOCIATE OF SCIENCE

Required General Education Courses:

MUST BE COMPLETED PRIOR TO ACCEPTANCE INTO PROGRAM (24 units)

F BIOR5- Human Anatomy	4.0
F BIOR6- Introductory Physiology	3.0
F BIOR6L- Physiology Laboratory	2.0
F BIOR27- Principles of Microbiology	4.0
F ENGr1A- College Composition and Reading	3.0
F MAT r123- Intermediate Algebra	5.0
F PSY2- General Psychology	3.0

Required Major Courses (6.5 units)

F ANTr2- Introduction to Cultural Anthropology	3.0
OR Ethnic Group Course _____	
F COMr1- Introduction of Public Speaking	3.0
OR COMr3- Survey of Human Communication	3.0
F HES120- American Heart Association Basic Life	0.5

¹SOC

SOCIAL JUSTICE (A.A.T.S.J)

ASSOCIATION OF ARTS FOR TRANSFER

Required Major Courses (14 units)

F SJS20- Introduction to Social Justice	3.0	
F SJS22- Women's Studies		3.0
OR		
SOQ20- Sociology of Gender and Society	3.0	
F ETHr1- Introduction to Ethnic Studies	3.0	
F MAT r13- Elementary Statistics	5.0	

Major Electives (Complete 9 of 11 units)

F ETHr2- Chicano Leadership		3.0
F ETHr3- Chicano in American Society	3.0	
F ETHr4- Chicano Culture		3.0
F ETHr6- La Chicana		3.0
F ETHr7- Chicano Theatre		3.0
F ETHr12- Chicano Cinema		3.0
F POLr5- Chicano Politics	3.0	

23 of 25 UNITS

SUBTOTAL

General Education - Required Courses

Students must complete one of the following courses: Tj /s.322 Td <0046>T -1.322 Td <0046>Tj /TT1 1 Tf (007 Tc

SOCIOLOGY

PROGRAM

x 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.

SPANISH

PROGRAMS

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

f 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

SPANISH FOR TRANSFER (AAT.SPA)

ASSOCIATION ARTS FOR TRANSFER

Required Major Courses (Complete 5 units)		
F SPAr1- Elementary Spanish		5.0
F SPAr1S- Elementary Spanish Speakers	5.0	
F SPAr1X- Elementary Spanish for Chicano Students	5.0	
Required Major Courses (Complete 5 units)		
F SPAr2- Elementary Spanish		5.0
F SPAr2S- Elementary Spanish Speakers	5.0	
F SPAr2X- Elementary Spanish for Chicano Students	5.0	
Required Major Courses (Complete 5 units)		
F SPAr3- Intermediate Spanish	5.0	
F SPAr3S- Intermediate Spanish Speakers	5.0	
Required Major Courses (Complete 5 units)		
F SPAr4- Intermediate Spanish	5.0	
F SPAr4S- Intermediate Spanish Speakers	5.0	
Major Electives (Complete 3 units)		
F ENGr26- Chicano Literature	3.0	
F HIS r6- History of Mexico		3.0
F HIS r49A 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 63)	units	39
I GET (see page 65)	units	37

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

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 electives list to complete the requirements for this degree. Students will choose to take an additional 3 unit course from the

SPANISH(AA.SPA)

ASSOCIATE

STUDIOARTS

PROGRAM

f Associatén Arts for Transfer(A.A. T)

DESCRIPTION

Art is the study of communicating concepts and ideas visually. The Associate 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 ,. gree

THEATRE ARTS

PROGRAMS

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

DESCRIPTION

ASSOCIATE IN ARTS FOR TRANSFER (A.A. 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 provides students the opportunity to learn 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 OF 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.

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THEATRE ARTS (AAT.THA)

ASSOCIATION ARTS FOR TRANSFER

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

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

Required Major Courses (Complete 6 units)

F TAC1r -Introduction to Theatre	3.0
OR	
TAC3r -History of Theatre	3.0
F TAC10 -Acting I	3.0

Required Major Courses (Complete 8 units)

F TAC20 -Intro to Ensemble Play Production	3.0
TAC21 -Intro to Modern Play Production	3.0
TAC22 -Intro to Musical Theatre Production	3.0
TAC24 -Intro to World Theatre Production	3.0
TAC25 -Intro to Revival Play Production	3.0
OR	
F TAC26 -Scenic Construction	3.0
TAC28 -Make up/Hair Techniques for the Stage	3.0
TAC29 -Stage Light and Sound	3.0
TAC40 -Stage Costuming Practicum	3.0

Major Electives (Complete 9 units)

F TAC2r -Script Analysis	3.0
F TAC11 -Intermediate Acting	3.0
F TAC30 -Fundamentals of Theatre Design	3.0

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

F TAC20 -Intro to Ensemble Play Production	3.0
TAC21 -Intro to Modern Play Production	3.0
TAC22 -Intro to Musical Theatre Production	3.0
TAC24 -Intro to World Theatre Production	3.0
TAC25 -Intro to Revival Play Production	3.0
OR	
F TAC26 -Scenic Construction	3.0
TAC28 -Make up/Hair Techniques for the Stage	3.0
TAC29 -Stage Light and Sound	3.0
TAC40 -Stage Costuming Practicum	3.0

SUBTOTAL 18 UNITS

General Education - Required Courses

Students must complete one of the following General Education Plans:

CSUGE (see page 63)	units	39
IGET (see page 65)	units	37

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.

60 UNITS

THEATRE ARTS AND CINEMA (AA.TAC)

ASSOCIATE ARTS

Required Major Courses (Complete 15 units)

F TAC1r -Introduction to Theatre

OR

TAC50 -Introduction to

3.0

WELDING

PROGRAMS

- f Associate of Science (A.S.)
- f 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, auto body 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 degree 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:

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

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who 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

WELDING (AS.WLD)

ASSOCIATE OF SCIENCE

Required Courses (28 units)

F	CMA r74 Industrial Print Reading and Drawing	3.0
F	MFGTr169 Hazardous Materials and Industrial Safety	2.0
F	WLDr150 Introduction to Arc Welding	3.0
F		

WELDING (CT.WLD)

CERTIFICATE OF ACHIEVEMENT

Required Major Courses (24 units)

F CMA r74 Industrial