Majors
Exploring fields of study and related careers

Read the following reference guide to find out more about majors, degree options at Hartnell College, related skills and related careers.

For specific major course requirements, please consult the Hartnell College Catalog.
Administration of Justice

Overview

The Administration of Justice program includes the theory and practice of law enforcement, correctional science and paralegal/legal assistantship. Law enforcement courses focus on police activities including effective patrol services to the public. Correctional science courses instruct on the incarceration process as well as rehabilitation of the offender. Paralegal/legal assistantship courses overview the preparation of cases for court under the supervision of an attorney. Students will be exposed to the core principles and practices in the field of Administration of Justice. This includes 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.

Degree Options at Hartnell:

- Associate in Science in Administration of Justice for Transfer Degree
- Associate of Science in Administration of Justice

Related Careers

- Police Officer
- Deputy Sheriff
- Correctional Officer
- Probation Officer
- Parole Agent
- Paralegal
- Law Enforcement Agent
- Criminal Investigator
- Detective
- Attorney
- Military Officer
- Public Defender
- Social Worker
- Warden

Related Skills

- Identify and analyze social problems
- Broad understanding of law
- Considerations of gender & race
- Critical thinking
- Decision-making
- Ethics and moral values
- Interviewing skills
- Knowledge of legal structures
- Patience
- Quantitative skills
- Research strategies
- Supervision & management skills
- Understanding nature of crimes
- Understanding society’s reaction to crimes
- Written & presentation skills
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 to name only two. 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.

Degree Options at Hartnell:

Associate of Science Degree in Advanced Diesel Technology

Related Careers

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

Related Skills

- Customer service skills
- Dexterity
- Mechanical skills
- Troubleshooting skills
- Public safety and security
- Repairing
- Operation and control
- Operation monitoring
- Quality control analysis
- Critical thinking
- Equipment maintenance
Courses in these areas provide students with skills valuable to businesses in the Central Coast’s produce industry or with one of the many companies providing support services and products. Many of the courses are fully transferable to the California State University system. Internships and work experience are an important part of the program, providing students with experience and contacts in the local produce industry. Many local employees started their career paths in the agriculture program at Hartnell College. The hands-on, practical approach helps students to find opportunities in a wide range of industry positions.

Related Careers
- Product Manager
- Quality Control Supervisor
- Produce Sales
- Supplies and Services Sales
- Labor Contractor
- Pest Control Advisor
- Field Production Supervisor
- Harvest Supervisor
- Production Specialist
- Produce Buyer
- Owner-Grower

Related Skills
- Problem-solving techniques
- Critical thinking skills
- Preparation and delivery of business documents
- Quality control analysis
- Operation monitoring
- Production and processing
- Management of personnel resources
Agricultural and Industrial Technology is an interdisciplinary program designed to prepare the student for positions of employment requiring a general background in the application of technology or transfer to the state university system. The introductory program in Industrial Mechanics is intended to allow students to acquire a solid base of skills in a variety of mechanical areas. More advanced skills can be learned in courses leading to the Industrial Technician certificate.

Degree Options at Hartnell:
Certificate of Achievement in Agricultural & Industrial Mechanics, Industrial Mechanics

Overview

Related Careers
- Farm Shop and Equipment Dealer Mechanic
- Processing Facility Maintenance Worker or Supervisor
- Parts Technician
- Refrigeration Technician
- Equipment Fabricator
- Industrial Equipment Mechanic or Operator
- Parts Clerk

Related Skills
- Mechanical
- Production and processing
- Mathematics
- Repairing
- Equipment maintenance
- Operation monitoring
- Troubleshooting
- Quality control analysis
- Operations and control
- Critical thinking
The Alcohol and Drug Abuse Counseling major prepares individuals to help prevent substance abuse, counsel individuals and families with drug and alcohol problems, and perform intervention and therapeutic services for persons suffering from addiction. The major includes instruction in individual and group counseling skills, psychology of addiction, sociology, crisis intervention, substance abuse identification methodologies, substance abuse treatment modalities, substance abuse prevention and treatment resources, pharmacology and behavioral aspects of abused substances, treatment evaluation, patient observation and education, group dynamics, treatment planning and coordination, and applicable law and regulations.¹

Degree Options at Hartnell:

- Associate of Arts Degree in Alcohol & Drug Abuse Counseling
- Certificate of Achievement in Alcohol & Drug Abuse Counseling

Related Careers

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

Related Skills

- Active listening
- Good communication skills
- Social perceptiveness and sensitivity
- Critical thinking
- Monitoring and assessing performance of self and others
- Treatment planning and coordination
- Collaboration
- Service orientation

¹ Adapted from: http://www.cacareerzone.org/majors/detail/51.1501
The study of art involves the understanding and appreciation of various cultural heritages and the development of skills in drawing, painting, design, weaving, jewelry and/or ceramics. The faculty of the art discipline are committed to making the arts of the past and present available to students through historical surveys and studio experience. The heritage of thought and skill, going beyond our immediate time and culture, will enrich students’ lives, broaden their personal view of the world and their improve their ability to communicate ideas through added knowledge and greater intercultural understanding.

Degree Options at Hartnell:

Associate of Arts Degree in Art

Overview

Related Careers

- Arts Administrator
- Art Critic
- Art Dealer
- Ceramicist
- Industrial Designer
- Display Designer
- Designer
- Gallery Director
- Historian
- Merchant
- Sculptor
- Muralist
- Painter
- Art Teacher
- Art Director
- Illustrator
- Photographer

Related Skills

- Adaptability
- Appreciation of aesthetics
- Cultural awareness
- Imagination and creativity
- Listening and interpretation
- Organization
- Presentation and public speaking
- Patience
The Astronomy program introduces students to physical properties and processes that govern celestial bodies in the Universe. Students may take astronomy courses to satisfy their natural sciences requirements or to transfer with a major in astronomy or double major in astronomy and physics to the university.

Students who pursue 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.

**Degree Options at Hartnell:**

*Associate of Science Degree in Astronomy*

**Related Careers**

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

**Related Skills**

- Using scientific rules and methods
- Critical thinking
- Reading comprehension
- Active learning and problem solving
- Written and verbal communication
- Mathematics
Automotive mechanics prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.¹ This certificate or degree program prepares students for entry-level employment as automotive service and repair technicians. Basic automotive maintenance and service operations are stressed to allow students to be immediately productive on the job. This program prepares students for employment in automotive servicing and repair, engine testing, automotive field services, and automotive parts. A long-sleeve work shirt, safety glasses, pants, and work boots are required dress in all AUT classes for safety reasons.

Degree Options at Hartnell:

Associate of Science Degree in General Automotive Mechanics
Certificate of Achievement in General Automotive Mechanics

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

Related Skills
- Mechanical
- Engineering and technology
- Customer and personal service
- Equipment maintenance
- Repairing
- Troubleshooting
- Quality control analysis
- Equipment selection
- Operation and control
- Operation monitoring

¹ http://www.cacareerzone.org/majors/detail/47.0604
Biology is the study of life, individual organisms, their communities, and the systems, cells, and processes that make up living matter. The Biology program offers courses 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.

Degree Options at Hartnell:
Associate of Science Degree in Biology

Overview

Related Careers
- Biologist
- Animal Scientist
- Botanist
- Ecologist
- Environmental Scientist
- Natural Resource Manager
- Nature Conservationist
- Public Health Worker
- Water Quality Technician
- Wildlife Biologist
- Wildlife Resources Worker
- Researcher/Professor

Related Skills
- Analytical and quantitative abilities
- Curiosity and creativity
- Independent worker
- Information handling and organization
- Innovative talents
- Numerical computation and mathematics
- Oral and written communication
- Problem solving
- Statistical awareness
- Teamwork
- Technical skills
The business administration major generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision-making.¹ 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, operations management, and marketing.

Degree Options at Hartnell:

Associate in Science in Business Administration for Transfer Degree (AS-T)

Related Careers

- Chief Executive
- Sales Manager
- General & Operations Manager
- Social/Community Service Manager
- Supply Chain Manager
- Cost Estimator
- Accounting
- Customer

Related Skills

- Analyze and interpret data
- Computer literacy
- Coordinating activities
- Critical thinking
- Cross-cultural activities
- Interpersonal skills leadership
- Numerical computation
- Oral and written communication
- Problem solving

¹ http://www.cacareerzone.org/majors/detail/52.0201
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.

Degree Options at Hartnell:

Associate of Science Degree in Business Office Technology
Certificate of Achievement in:
- Bookkeeping
- Information Processing

Overview

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

Related Skills
- Communication skills
- Customer service
- Office technology
- Office etiquette
- Monitoring
- Active listening
- Time management
- Critical thinking
- Computers and electronics
- Service orientation
A program of study that focuses on the scientific study of the composition and behavior of matter, including its micro and macro structure, the processes of chemical change, and the theoretical description and laboratory simulation of these phenomena.¹ A full program of chemistry for the professional scientist is offered through general chemistry and a two-semester course in organic chemistry. A separate track is offered for nursing students which includes general inorganic, organic and biochemistry. The Chemistry discipline also has a strong commitment to the student with no prior chemistry or one whose background is weak. The entire program is taught with a strong emphasis on the laboratory and in the more advanced classes, students receive hands-on experience with a wide variety of instruments.

Related Careers

- Natural science manager
- Chemist
- Teacher/Professor
- Clinical Researchers
- Biochemist
- Chemical Laboratory Technician
- Food Chemist
- Hydrologist
- Pharmacologist
- Plastics Engineer
- Quality Assurance Manager
- Toxicologist
- Soil Scientist
- Pollution Control Chemist
- Product Tester
- Molecular Biologist
- Organic Chemist

Related Skills

- Analytical skills
- Attending to data
- Conduct research
- Curiosity
- Developing theories
- Follow through skills
- Observation and decision making
- Oral and written communication
- Perform experiments
- Process data
- Remain objective
- Science and math ability
- Technological skills
- Utilizing formulas
- Able to work independently and in groups

¹ http://www.cacareerzone.org/majors/detail/40.0501
Overview

The Chicano Studies program provides organized studies in the heritage of Chicanos and fosters and expands general understanding of the cultural contributions of this group. The Chicano Studies courses give students opportunities to develop competence in and an understanding of the language, history, and culture of Chicanos, as well as current issues affecting the Chicano community. Completion of the Chicano Studies major enhances students’ qualifications for positions in schools, community groups, governmental organizations, and private enterprise.

Related Careers

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

Related Skills

- Creative and critical thinking
- Research and analysis
- Understanding people and institutions in different communities and cultures
- Oral and written communication
- Proficiency in interpersonal communication
- Thorough knowledge of community resources
- Ability to interact effectively with people of different backgrounds
Communication Studies

Overview

Communication Studies 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 major 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.

Degree Options at Hartnell:

Associate in Arts in Communication Studies for Transfer Degree (AA-T)

Associate of Arts Degree in Communication Studies

Related Careers

- Public relations
- Teacher
- Consultant
- Broadcaster
- Lawyer
- Public Administration
- Marketing
- Account Representative
- Announcer
- Director/Producer
- Journalist
- Editor
- Advertising
- Sales Representative
- Researcher
- Advocate
- Corporate Communications Officer
- Speech Writer
- Negotiator

Related Skills

- Applying theory
- Composing
- Developing ideas
- Creativity
- Editing
- Experimenting with ideas
- Expressing self
- Forecasting
- Imaging
- Innovative thinking
- Linguistics
- Publicity writing
- Quick thinking
- Ability to read and write articulately
- Good listening
Overview

The Computer Science and Information Systems program prepares students taking the Computer Science Option with the lower-division coursework 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. All options are designed to provide students with the skills necessary for employment in the information systems and computer science industry. This certificate or degree program is designed for those interested in becoming programmers in a technical, scientific systems or game development environment, or for students desiring transfer to a four-year Computer Science Degree Program.

Related Careers

- Computer & Information System Managers
- Information Security Analysts
- Software Developers
- Software Quality Assurance Engineers & Testers
- Computer Science Teacher
- Computer Programmer
- Computer Network Support Specialist
- Computer Systems Engineer
- Web Administrator
- Web Developer
- Search Marketing Strategist
- Systems Analyst

Related Skills

- Ability to think logically, thoroughly and concentrate intensely
- Detail oriented, organized, work well under pressure
- Problem solving and decision-making
- Analytical reasoning
- Ability to master new computer languages and methodologies
- Sensitive to multiple perspectives
- Curiosity and enthusiasm
- Advanced quantitative abilities
- Classifying/Systemizing
- Research
- Statistical analysis
- Written and oral communication
This program is designed for those interested in designing effective and persuasive digital and web media. This option emphasizes the following competencies: managing the development and delivery of comprehensive, integrated digital media, and schedule, customer liaison skills and client interaction, and integrating all facets of digital media into an effective product. Upon successful completion of the program, a student should be able to: anticipate, identify and solve technical and design issues by applying current media design standards, demonstrate strong interpersonal skill, communicate effectively with technical and non-technical colleagues, work effectively on a team, and apply knowledge in a variety of computer skill and proficiency areas including programming languages, software applications, and hardware setup and configuration.

Related Careers

- Web Developer
- Graphic Designer
- Applications Developer
- Software Engineer
- Programmer
- Web Administrator
- Information Systems Manager
- Computer Consultant
- Software Development Specialist

Related Skills

- Ability to think logically, thoroughly and concentrate intensely
- Detail oriented, organized, work well under pressure
- Problem solving and decision-making
- Analytical reasoning
- Ability to master new computer languages and methodologies
- Sensitive to multiple perspectives
- Curiosity and enthusiasm
- Advanced quantitative abilities
- Classifying/Systemizing
- Research
- Statistical analysis
- Written and oral communication
This certificate or degree program is designed for those interested in becoming network and security specialists in a networked business or information systems environment. Upon successful completion of the program, a student should be able to: design, plan, and implement a small office network, incorporating current industry standards for performance, reliability, and security, demonstrate strong interpersonal skills, communicate effectively with technical and non-technical colleagues, and work effectively on a team, assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems, configure small business and small enterprise networking, storage and virtual equipment, (servers and network devices) to create a reliable, secure, and efficient networking infrastructure.

Related Careers

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

Related Skills

- Ability to think logically, thoroughly and concentrate intensely
- Detail oriented, organized, work well under pressure
- Problem solving and decision-making
- Analytical reasoning
- Ability to master new computer languages and methodologies
- Sensitive to multiple perspectives
- Curiosity and enthusiasm
- Advanced quantitative abilities
- Classifying/Systemizing
- Research
- Statistical analysis
- Written and oral communication
The construction industry is steadily shifting to more environmentally sound materials and methods in all areas of building, including residential, commercial, industrial, and civil construction. The centerpiece of the Sustainable Construction program is the “Field Practice” class in which students work on a “green” construction project together. Students may select a special emphasis in Green Building, Sustainable Design, or Construction Management.

Degree Options at Hartnell:

Associate of Science Degree in Sustainable Construction

Certificate of Achievement:

- Construction Management
- Green Building
- Sustainable Design

Related Careers

- Construction Manager
- First Line Supervisor of Construction Trade and Extraction Worker
- Sustainable Building Designer
- Green Building Specialist
- Auditor
- Commissioner
- Inspector
- Certification Manager
- Remodeling Contractor
- Construction Project Estimator
- Facilities Manager
- Environmental Planner
- Building Permit Processor

Related Skills

- Production and processing
- Building and construction
- Customer and personal service
- Administration and management
- Public safety and security
- Coordination
- Active listening
- Critical thinking
- Management of personnel resources
- Time management
Overview

This program will provide students with an innovative and progressive foundation in Sustainable Design thinking and approaches, including resource efficiency, full capacity use, renewable energy, product life cycle analysis, closed-loop systems, multi-functionality, biomimicry, and appreciative inquiry. A knowledge of sustainable design principles and practices will support many professional career directions.

Related Careers

- Architect
- Design/Build Contractor
- Construction Manager
- Interior Designer
- Community Planning
- Product and Industrial Designer
- Commercial Merchandising
- Sustainability Specialist

Related Skills

- Building and construction
- Administration and management
- Design
- Engineering and technology
- Reading comprehension
- Active listening
- Complex problem solving
- Oral and written communication
- Critical thinking
- Monitoring
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. 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.

Degree Options at Hartnell:

Associate of Arts Degree in Digital Arts
Certificate of Achievement in Digital Arts

Related Careers

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

Related Skills

- Communications and media
- Design
- Fine arts
- Computers and electronics
- Oral and written communication
- Creativity
- Active listening
- Critical thinking
- Judgment and decision-making
The Drafting and Design Engineering Technology is a two-year program that combines drafting, engineering, and computer skills. Drafting and design engineering technologists prepare detailed drawings based on information, rough sketches, specifications, calculations and estimates prepared by other individuals or teams. A graduate of this program would qualify for employment in most drafting positions. Because the program is easily adapted to a number of specialized areas, it offers the opportunity for employment in architectural, construction, mechanical, electrical, and other related industries. This program also makes it possible for graduates to advance to a supervisory position in the drafting and design field.

Related Careers
- Architectural Drafter
- Electronic Drafter
- Mechanical Drafter
- Civil Drafter
- Mechanical Drafter
- Project Manager
- City Planner
- Drafting Technician
- Engineering Technician

Related Skills
- Design
- Building and construction
- Engineering and technology
- Mathematics
- Active listening
- Critical thinking
- Oral and written communication
- Judgment and decision making
- Coordination
- Attention to detail
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. The program 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 administration of ECE programs, infant/toddler development and care, advanced ECE curriculum, and special needs. Students will be eligible to meet 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.

Related Careers

- Preschool Teacher
- Kindergarten Teacher
- Teacher Assistant
- Day Care Administrator
- Tutor
- Curriculum Specialist
- Child Development Specialist
- Early Intervention Specialist
- Social Worker
- Parenting Educator
- Community Service Agent

Related Skills

- Customer and personal service
- Education and training
- Psychology
- Public safety and security
- Oral and written communication
- Learning strategies
- Instructing
- Active listening
- Coordination
- Social perceptiveness
- Critical thinking
Earth science is the study of the nature of the earth and other planets. It combines geology, the principal earth science, with oceanography, meteorology and astronomy to understand the forces that have created the universe.¹ The Earth Science program provides the opportunity for an interdisciplinary curriculum for students whose interest cross over into various areas of earth science. Students completing this discipline build a strong foundation in several aspects of earth science, preparing them to continue in the field.

Degree Options at Hartnell:

Associate of Science Degree in Earth Science

Overview

Related Careers

- Aquacultural Manager
- Aquarist
- Cartographer
- Climate Change Analyst
- Diver
- Emergency Management Specialist
- Environmental Compliance Inspector
- Environmental Scientist
- Geographer
- Geoscientist
- Hydrologist
- Industrial Health and Safety Engineer
- Meteorologist
- Park Ranger
- Soil and Water Conservationist
- Soil Scientist

Related Skills

- Analytical and quantitative abilities
- Curiosity and creativity
- Independent worker
- Information handling and organization
- Innovative talents
- Numerical computation
- Oral and written communication
- Problem solving
- Scientific theory and practical knowledge
- Statistical awareness
- Teamwork
- Technical skills

¹ http://work.chron.com/10-earth-science-careers-10541.html
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. Upon successful completion of the Associate in Arts in Elementary Teacher Education for Transfer Degree, a student should 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; and transfer into the traditional Liberal Studies major.

Related Careers

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

Related Skills

- Ability to teach/train
- Communicating with parents/guardians
- Creativity
- Decision making
- Explaining ideas clearly
- Flexibility
- Lesson planning
- Organization/planning
- Patience
- Summarization
- Team player
- Writing and presenting information
- Social perceptiveness
- Active listening
- Monitoring
- Learning strategies
A program that generally prepares individuals to apply mathematical and scientific principles to solve a wide variety of practical problems in industry, social organization, public works, and commerce. Includes instruction in undifferentiated and individualized programs in engineering.¹ The Engineering program at Hartnell College covers the first two years of the traditional professional engineering program leading to a Bachelor’s Degree. The required core curriculum follows the Engineering Articulation Agreement developed by the Engineering Liaison Council (ELC) between community colleges and four-year public and private colleges and universities.

1 http://www.cacareerzone.org/majors/detail/14.0101

Related Careers

- Architectural Engineer
- Biochemical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Industrial Engineer
- Mechanical Engineer
- Polymer Engineer
- Structural Engineer
- Aerospace Engineer
- Nuclear Engineer
- Petroleum Engineer
- Systems Science Engineer
- Automotive Engineer

Related Skills

- Engineering and technology
- Building and construction
- Mathematics
- Design
- Critical thinking
- Reading comprehension
- Active listening
- Written and oral communication
- Operations analysis
- Complex problem solving

Degree Options at Hartnell:

Associate of Science Degree in Engineering
The study of English as a major discipline is composed of two different areas of concentration: literature and composition and writing. Literature explores the fiction, drama, and poetry of different cultures. It involves criticism of the literature being studied. Composition and writing deals with the mechanics of language, the structure of compositions, grammar, rhetoric (theory behind the composition), and creative writing. Courses in these areas deal not only with subjects but how to teach them.¹ 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.

Degree Options at Hartnell:

Associate in Arts in English for Transfer Degree (AA-T)

Overview

The study of English as a major discipline is composed of two different areas of concentration: literature and composition and writing. Literature explores the fiction, drama, and poetry of different cultures. It involves criticism of the literature being studied. Composition and writing deals with the mechanics of language, the structure of compositions, grammar, rhetoric (theory behind the composition), and creative writing. Courses in these areas deal not only with subjects but how to teach them.¹ 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.

Related Careers

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

Related Skills

- Imaginative
- Individually expressive
- Observant
- Open to criticism
- Organized
- Proficient in reading, research, and writing
- Self-disciplined
- Self-motivated
- Strong communication
- Active listening
- Critical thinking and analysis

¹https://www.mycollegeoptions.org/content/research/major/Description/English.aspx
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 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.

Degree Options at Hartnell:

- Associate in Arts in History for Transfer Degree (AA-T)
- Associate of Arts Degree in History

Overview

Related Careers

- Teacher
- Historian
- Regulatory Affairs Manager
- Archivist
- Biographer
- Editor
- Lawyer
- Lecturer
- Museum Curator
- Media Consultant
- Researcher
- Urban Planner
- Writer/Author
- Historic Preservation Specialist
- Foreign Service Officer
- International Relations Specialist
- Museum Technician/ Specialist

Related Skills

- Analyzing ideas and information
- Decision making
- Developing a world view
- Examining evidence
- Explaining ideas
- Explaining the present by referring to the past
- Interpreting events and ideas
- Identifying relationships between factors
- Writing and presenting information
Kinesiology focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Includes instruction in biomechanics, motor behavior, motor development and coordination, motor neurophysiology, performance research, rehabilitative therapies, the development of diagnostic and rehabilitative methods and equipment, and related analytical methods and procedures in applied exercise and therapeutic rehabilitation.¹

The Associate in Arts in Kinesiology for Transfer Degree provides formalized educational opportunities for the development and acquisition of motor skills, improved physical fitness and their application to sports and physical activities. The curriculum covers a broad knowledge base that serves the diverse needs of students who wish to obtain an in-depth understanding of the field while providing a clear pathway to students who wish to transfer to a CSU campus. Baccalaureate programs may include, but are not limited to, exercise science, health promotion, physical education, therapeutic exercise & rehabilitation, and exercise & movement science.

Degree Options at Hartnell:

**Associate in Arts in Kinesiology for Transfer Degree (AA-T)**

### Related Careers

- Exercise Physiologist
- Physical Therapist
- Sports Physiologist
- Exercise Specialist
- Health Consultant
- Nutritionist/Registered Dietitian
- Occupational Therapist
- Personal Trainer
- Recreation Director
- Sports Coach
- Physical Education Teacher
- Emergency Medical Technician
- Massage Therapist

### Related Skills

- Analysis and comparison of information
- Assessment
- Counseling, training
- Diagnosing, troubleshooting
- Evaluating performance
- Oral and written communication
- Instruction
- Innovative
- Interpersonal skills
- Organizing
- Planning, decision making
- Research
- Supervising
- Service orientation

¹ [http://www.cacareerzone.org/majors/detail/31.0505](http://www.cacareerzone.org/majors/detail/31.0505)
Overview

The liberal arts program is a structured combination of the arts, biological and physical sciences, social sciences, and humanities, emphasizing breadth of study.¹ 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). Upon successful completion of the General Studies program, a student should 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.

Degree Options at Hartnell:

Associate of Arts Degree in Liberal Arts with an emphasis in one of the following:
- Anthropology
- Art and Design
- Communication
- Culture and Society
- History
- Humanities
- Languages and Literature
- Performing Arts
- Philosophy
- Political Science
- Psychology
- Sociology and Sociology Sciences

Related Careers

- Teacher
- Real Estate
- Business
- Editor
- Journalist
- Publicist
- Policy Analyst
- Minister
- Lobbyist
- Politician
- College Recruiter
- Customer Service Representatives
- Advertising Account Executive
- Grant Writer
- Speech Writer
- Archivist
- Museum Manager
- Non-profit Director

Related Skills

- Analysis
- Communication
- Cultural literacy and foreign language proficiency
- Emotional intelligence
- Leadership
- Managing qualitative information
- Planning and organizing
- Research
- Systemic thinking
- Learning and synthesizing new ideas

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.

Degree Options at Hartnell:

Associate in Science in Mathematics for Transfer Degree (AS-T)

Overview

Related Careers
- 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

Related Skills
- Ability to analyze and interpret data
- Advanced quantitative skills
- Computer literacy
- Critical thinking
- Efficient
- Logical thinking
- Numerical computation
- Organizational skills
- Problem solving
- Systemizing skills
- Team skills
- Testing skills
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.

Degree Options at Hartnell:

- Associate in Arts in Music for Transfer Degree (AA-T)
- Associate of Arts Degree in Music

Related Careers

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

Related Skills

- Ability to work well under pressure
- Coordinating with others
- Creativity and performance
- Dedication and self-discipline
- Developing ideas
- Following written and oral instruction
- Good presentation skills
- Physical stamina
- Sense of rhythm
- Strong organizational and memory skills
- Visualizing concepts
Nurses are leaders in health care and work collaboratively with allied health care providers. There continues to be a large demand for registered nurses, and a career in nursing offers great flexibility regarding hours, work settings, and patient populations. Three out of five nurses work in hospitals and many nurses work part-time. The field of nursing combines science and technology with the desire to help people. One must enjoy helping people of all types and backgrounds. Nursing requires both physical stamina and emotional stability. Nurses must be able to both follow orders and direct others.¹

The Hartnell College Registered Nursing (RN) Program is a defined group of prerequisite, and corequisite courses and a 4-semester course of study consisting of classroom, high-fidelity simulation, nursing skills laboratory, seminar, and clinical experiences. Upon successful completion of program requirements, graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). After passing, graduates may practice as registered nurses in a variety of acute and community-based settings. The Hartnell College RN Program is fully approved by the California Board of Registered Nursing (BRN) and is seeking accreditation by the Accreditation Commission for Education in Nursing.

### Degree Options at Hartnell:

**Associate of Science Degree in Registered Nursing**

### Related Careers

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

### Related Skills

- Ability to handle emergencies
- Ability to work independently and as a team
- Adopting partnership approaches with others
- Concern for well-being of others
- Encouraging and motivating individuals
- Identifying and managing challenging behaviors
- Interpreting and presenting information in a clear and concise manner
- Knowledge of health related issues
- Maintaining accurate records
- Patience an the ability to handle stress
- Physical stamina
- Providing emotional support

¹ [https://careereXploration.appstate.edu/pagesmith/106](https://careereXploration.appstate.edu/pagesmith/106)
Licensed Vocational Nurses (LVNs) provide basic medical care and work under the direction of registered nurses and doctors. LVNs typically do the following: monitor patient’s health, administer basic patient care, provide for basic comfort of patients, discuss care practices with patients, report patient status/concerns to RNs and doctors, and keep records on patients’ health. The Hartnell College Vocational Nursing (VN) Program is a defined group of prerequisite and corequisite courses in a 12-month certificate 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 seeking accreditation by the Accreditation Commission for Education in Nursing.

Related Careers

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

Related Skills

- Customer and personal service
- Psychology
- Service Orientation
- Coordination
- Monitoring
- Active listening
- Reading comprehension
- Social perceptiveness
- Ability to handle emergencies and stress
- Work independently and as a team
- Maintaining accurate records
- Patience
- Concern for well-being of others
Photography is an omnipresent, integral part of life in the 21st Century. It is the basis of visual media such as film making, 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 platform for communicating ideas. The photography faculty are committed to empowering students with the ability to apply photo imaging to their lives for practical, professional and artistic purpose. Hartnell photo instruction prepares students for advancement to college and university study, 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.

Degree Options at Hartnell:

- Associate of Arts Degree in Photography
- Certificate of Achievement in Photography

Overview

Photography is an omnipresent, integral part of life in the 21st Century. It is the basis of visual media such as film making, 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 platform for communicating ideas. The photography faculty are committed to empowering students with the ability to apply photo imaging to their lives for practical, professional and artistic purpose. Hartnell photo instruction prepares students for advancement to college and university study, 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.

Related Careers

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

Related Skills

- Adaptability
- Appreciation of aesthetics
- Attention to detail
- Critical evaluation
- Decision making
- Driven and competitive
- Flexibility, imagination and creativity
- Interpretive skills
- Knowledge of contemporary photographic styles
- Problem solving
- Strong communication skills of all types
- Visual literacy
The Physical Education, Kinesiology, Health and Athletics program provides formalized educational opportunities for the development and acquisition of motor skills, improved physical fitness and their application to sports and physical activities. This AS Degree covers a broad knowledge base that represents several disciplines that include traditional physical education, exercise science, athletic training, coaching, and health science. The Health Education Program provides the student with the knowledge and skills to develop a healthy lifestyle. The Adaptive Physical Education Program parallels the concepts and programs of the Physical Education and Kinesiology discipline includes a broad range of movement skills specifically designed for the special needs individual, with the objective of making a noticeable difference in their daily lives. These programs help prepare students to transfer as Physical Education and Kinesiology majors to four-year institutions.

Degree Options at Hartnell:

Associate of Science Degree in Kinesiology/Physical Education, Health and Athletics

Overview

The Physical Education, Kinesiology, Health and Athletics program provides formalized educational opportunities for the development and acquisition of motor skills, improved physical fitness and their application to sports and physical activities. This AS Degree covers a broad knowledge base that represents several disciplines that include traditional physical education, exercise science, athletic training, coaching, and health science. The Health Education Program provides the student with the knowledge and skills to develop a healthy lifestyle. The Adaptive Physical Education Program parallels the concepts and programs of the Physical Education and Kinesiology discipline includes a broad range of movement skills specifically designed for the special needs individual, with the objective of making a noticeable difference in their daily lives. These programs help prepare students to transfer as Physical Education and Kinesiology majors to four-year institutions.

Related Careers

- Activities Director
- Athletic Director/Trainer
- Sports Coach
- Fitness Instructor
- Dietitian
- Emergency Medical Technician
- Health Educator
- Occupational Therapist
- Physical Therapist
- Professional Sports Referee/Scout
- Sports Agent
- Strength and Conditioning Coach
- Rehabilitation Specialist
- Sporting Goods Sales

Related Skills

- Athletically inclined
- Demonstration skills
- Discussion skills
- Healthy/physically fit
- Interest in teaching
- Knowledge of proper nutrition
- Motivational skills
- Motor skills
- Oral and visual communication skills
- Patience
- Planning and organization
- Teaching/coaching
Physics is the natural science involving a general analysis of nature, conducted in order to understand how the universe behaves. It involves the study of matter and its motion through space and time, along with related concepts such as energy and force. Physics overlaps with many interdisciplinary areas such as astronomy, biology, chemistry, and geology. Physics also makes significant contributions through advances in new technologies that arise from theoretical breakthroughs. Research in physics includes the following specialty areas: condensed matter physics; 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.

Degree Options at Hartnell:

Associate in Science in Physics for Transfer Degree (AS-T)

Overview

Related Careers

- Aerodynamicist
- Astro Physicist
- Chemical Physicist
- Computer System Engineer
- Geophysicist
- Laboratory Technician
- Physics Teacher
- Medical Physicist
- Meteorologist
- Researcher
- Nuclear Physicist
- Research & Development Scientist
- Process Engineer
- Satellite Data Analyst
- Technical Consultant
- Technical Salesperson
- Test Engineer

Related Skills

- Define research problems
- Design equipment
- Develop and write research proposals and models
- Draw meaningful conclusions
- Establish experimental designs
- Establish hypotheses
- Evaluate ideas
- Gather/analyze data
- Identify/classify materials
- Inform, explain, instruct
- Mathematical modeling, formula use
- Measure distances, relationships
- Observe data
- Perform calculations
- Prepare technical reports
- Review scientific literature
- Summarize research findings
- Use instruments
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.

Degree Options at Hartnell:

Associate in Arts in Political Science for Transfer Degree (AA-T)

Overview

Related Careers
- Advocate
- Attorney
- Broadcast Journalist
- Campaign Manager
- City Manager
- Community Relations Director
- Policy Analyst
- FBI/CIA Agent
- Foreign Correspondent
- Labor Organizer
- Law Enforcement Officer
- Legal Assistant
- Paralegal
- Politician
- Public Administrator
- Social Services Administrator
- Teacher
- Urban/Regional Planner

Related Skills
- Able to develop and market ideas
- Analytical thinking
- Computer literate
- Decision making
- Interact with diverse populations
- Leadership abilities
- Oral and written communication
- Problem solving
- Research skills
- Team worker
- Understanding of community needs
- Work well under pressure
Psychology is the scientific study of individual and collective behavior, the physical and environmental bases of behavior, and the analysis and treatment of behavior problems and disorders.¹ The Associate in Arts degree in Psychology for Transfer provides a clearly articulated curricular track for students who wish to transfer to baccalaureate psychology degree programs at a California State University (CSU) campus. This degree provides the lower division psychology major courses required at many CSUs while exposing students to the core principles and practices of the psychology field. The AA-T degree will enable students to develop a strong foundation in research methods, statistics, and biological aspects of behavior and will offer a variety of elective courses to help students develop their knowledge of human behavior, critical thinking, communication and problem-solving skills.

Related Careers

- Child Psychologist
- Student Affairs Administrator
- Social Worker
- Community Relations Director
- Corrections Officer
- Career Counselor
- Academic Counselor
- Alcohol/Drug Counselor
- Health Educator
- Mental Health Coordinator
- Teacher
- Nonprofit Director
- Occupational Therapist
- Marriage, Family Therapist
- Psychiatrist

Related Skills

- Ability to observe, analyze and interpret information
- Ability to promote healthy relationships
- Ability to resolve or mediate conflicts
- Concern for and sensitivity to others
- Critical and inferential thinking
- Decision making
- Engage in ethical practice
- Good listener
- Insight to deal effectively with people
- Interpersonal communication (oral and written)
- Interviewing techniques
- Knowledge of human development and behavior
- Problem solving
- Understanding of group dynamics

¹http://www.cacareerzone.org/majors/detail/42.0101
The respiratory care program prepares individuals to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. Includes instruction in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record-keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.¹ The Hartnell College Respiratory Care Practitioner (RCP) program is a defined group of prerequisite and corequisite courses, and a four-semester course of study consisting of classroom, high-fidelity simulation, skills laboratory, seminar, and clinical experiences. Clinical experiences are obtained in Monterey, Santa Clara, Santa Cruz, and San Luis Obispo counties. Upon successful completion of program requirements, graduates are eligible to take the National Board of Respiratory Care's Registry Examination (RRT, CRT, CSE). After passing, graduates may practice as respiratory care practitioners in a variety of acute and community-based settings. The Hartnell College RCP program holds provisional accreditation from the Commission on Accreditation for Respiratory Care.

¹ http://www.cacareerzone.org/majors/detail/51.0908

### Related Careers

- Respiratory Care Practitioner/Therapist
- Respiratory Therapy Technician
- Health Teacher
- Medical and Clinical Laboratory Technologist

### Related Skills

- Customer and personal service
- Medicine
- Psychology
- Critical thinking
- Active listening
- Monitoring and assessing
- Oral and written communication
- Reading comprehension
- Social perceptiveness
- Active learning

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Degree Options at Hartnell:

**Associate of Science Degree in Respiratory Care Practitioner**
Social Sciences

Overview

The program in Social Sciences represents an interdisciplinary group of studies encompassing the disciplines of anthropology, geography, sociology and history. It is designed as a general preparation for a career in social programs that include education, human resources, law, and forensics. The program is based on the belief that it is important for an individual who plans to work with or for people cross-culturally (anthropologically), over a prescribed region or regions (geographically), within a social context (sociologically), and across time (historically). Upon successful completion of the Social Sciences program, a student should be able to: evaluate the nature of complex social phenomenon as it relates to contemporary U.S. politics, international relations, and diverse cultures, both past and present; self-reflect by assessing the complexity of human behavior at individual and group levels and comprehend how individuals can affect policy and in turn how policy affects individuals; and appraise the processes of evolution and social dynamics by which individuals and social structures have evolved.

Degree Options at Hartnell:

Associate of Arts Degree in Social Sciences

Related Careers

- Social Science Research Assistant
- Social Science Teacher
- Regulatory Affairs Manager
- Compliance Manager
- Transportation Planner
- City and Regional Planning Aide
- Teacher
- Social Work
- Psychologist
- Sociologist
- Cultural Specialist
- Writer
- Lawyer
- Museum Curator
- Economist
- Journalist
- Intelligence Analyst

Related Skills

- Reading comprehension
- Active listening
- Critical thinking
- Writing
- Complex problem solving
- Speaking
- Research methods
- Analyze, synthesize and interpret information
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.

Degree Options at Hartnell:

Associate in Arts in Sociology for Transfer Degree (AA-T)

Overview

Related Careers

• Social Work
• Counseling
• Case Management
• Advocacy
• Mental Health Services
• Programming Administration
• Teaching
• Research
• Public Administration
• Policy Analysis

Related Skills

• Ability to understand and improve human relationships
• Analyze, synthesize and interpret information
• Computer skills
• Critical thinking
• Interact well with diverse cultures/groups
• Interpersonal communication (oral and written)
• Insight into group dynamics
• Knowledge of social structures and change
• Research and planning
• Statistical abilities

• Program Development
• Human Services
• City Planning
• Law Enforcement
• Market Research
• Information Sourcing
• Human Resources
• Management
• Sales
• Public Relations
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.

Degree Options at Hartnell:

Associate in Arts in Studio Arts for Transfer Degree (AA-T)

Overview

Related Careers

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

Related Skills

- Adaptability
- Analyzing and interpreting
- Appreciation of aesthetics
- Attention to detail
- Communication skills
- Creativity
- Critical analysis
- Intense research skills
- Interpersonal skills
- Interpretive skills
- Listening objectively
- Organization skills
- Patience
- Perseverance
- Presentation and public speaking
- Understanding images
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. In addition, it highlights the linguistic, literary, artistic, cultural, and historical contributions of the Spanish speaking world. Courses in this degree program meet the language requirements at many four-year universities, as well as general education and transfer requirements.

Degree Options at Hartnell:

- Associate in Arts in Spanish for Transfer Degree (AA-T)
- Associate of Arts Degree in Spanish

Related Careers

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

Related Skills

- Adapting to other cultures
- Acknowledging value systems
- Assessing needs
- Clarifying ideas
- Collaboration
- Comparing translations/interpretations
- Gathering information
- Interpreting data
- Active listening
- Reading and writing in another language
- Reading for content and structure
- Reporting and editing
- Oral communication
- Summarizing ideas
- Understanding cultural diversity
- Understanding historical language
Theatre arts major study plays and other dramatic works and their production. Classes cover such topics as theater history, playwriting, acting, and directing, as well as lighting, scenery, and costume design.

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 provides students the opportunity to learn their craft within a professional context. Courses are designed to the community, for the general education student and for those who may pursue theatre as a major or as a career.

Degree Options at Hartnell:

- Associate in Arts in Theatre Arts for Transfer Degree (AA-T)
- Associate of Arts Degree in Theatre Arts

Overview

Related Careers

- Actor
- Teacher/Professor
- Director
- Agent
- Announcer
- Casting Director
- Critic
- Model
- Theatre Technician
- Concert Venue Technician

- Theme Park Technician
- Stage Manager
- Designer
- Art Director
- Facilities Manager
- Technical Director

Related Skills

- Adaptability
- Appreciation of Aesthetics
- Cultural Awareness
- Imagination and creativity
- Listen and interpret
- Organization
- Patience
- Presentation and public speaking
- Teaching
- Written and verbal communication

¹ https://bigfuture.collegeboard.org/majors/arts-visual-performing-theater-arts-theater-arts
Welding Technology prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.¹

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 AWS 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 and Toolmaking and Hard facing techniques that are used in the construction and agriculture industries.

Degree Options at Hartnell:

- Associate of Science Degree in Welding Technology
- Certificate of Achievement in Welding Technology

Overview

Related

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

Related Skills

- Production and processing
- Design
- Administration and management
- Mechanical
- Mathematics
- Critical thinking
- Operations and control
- Monitoring
- Reading comprehension
- Active listening
- Speaking
- Operation monitoring

¹http://www.cacareerzone.org/majors/detail/48.0508