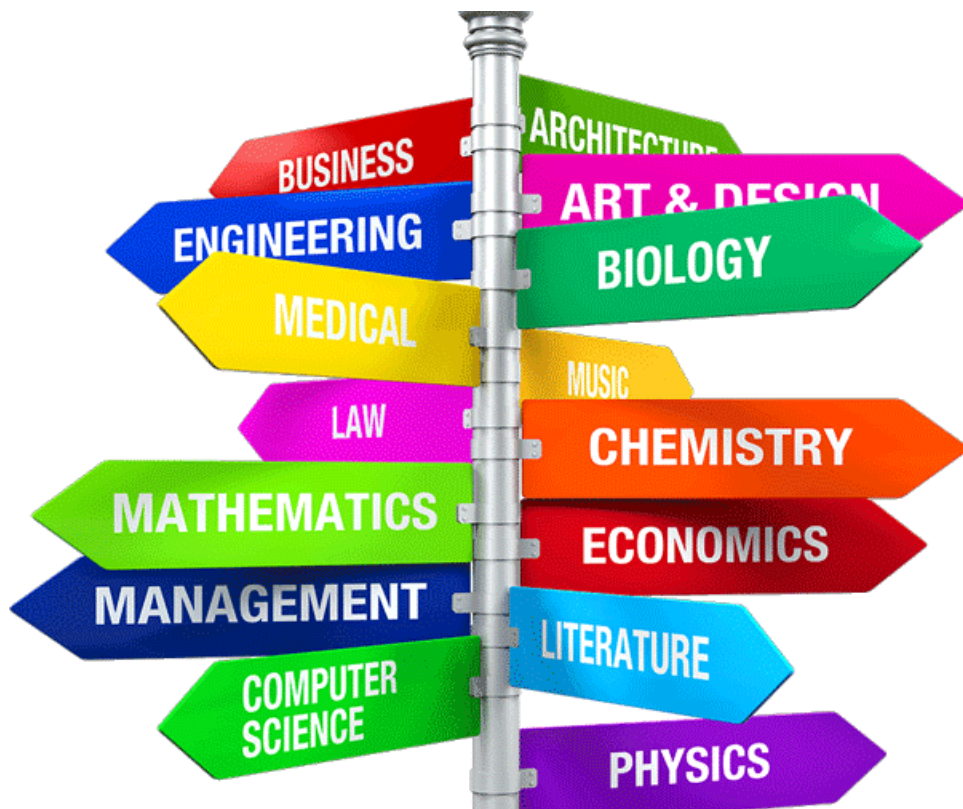




HARTNELL COLLEGE

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.

**Majors are organized by their corresponding Meta Major.*

Agriculture, Business & Industries Meta- Major



Programs in this Meta-Major:

- Administration of Justice
- Advanced Automotive Technology
- Advanced Diesel Technology
- Agriculture
- Agriculture Business
- Agriculture Plant Science
- Agriculture (Food Safety, Production)
- Business Administration
- Business Office Technology (Bookkeeping, Business Information Worker & Information Processing)
- Construction Management & Architecture
- Manufacturing Technology
- Web & Mobile Development
- Welding.

Why Agriculture, Business & Industries

If you are looking for Career Technical Education (CTE) that offers state-of-the-art, cutting-edge technologies, taught by industry-leading instructors, with practical business and real-world programs in a dynamic environment that emphasizes YOUR learning style, then Hartnell College CTE is where you need to be!

Administration of Justice

Degree Options at Hartnell:

Associate in Science in Administration of Justice for Transfer Degree (AST)

Associate of Science in Administration of Justice

Certificate of Achievement in 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.

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

Advanced Automotive Technology

Overview

Degree Options at Hartnell:

*Associate of Science
Degree in Advanced
Automotive Technology*

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. 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.

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

Advanced Diesel Technology

Overview

Degree Options at Hartnell:

Associate of Science Degree in Advanced Diesel Technology

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.

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

Agriculture

With an area Emphasis

Degree Options at Hartnell:

Associate of Science with an area of emphasis in Ag Business, Sustainable Crop Management, Food Safety, Horticultural Technician, Precision Irrigation, Small Farm Operation and Management, and Ag Technology Emphasis

Certificate of Achievement in Ag Business, Ag Production,

Overview

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

Agriculture Business

Overview

Degree Options at Hartnell:

Associate in Science for Transfer in Agriculture Business (AS-T)

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

Related Careers

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

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

Agriculture Plant Science

Overview

Degree Options at
Hartnell:

*Associate in Science for
Transfer in Plant Science
(AS-T)*

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

Related Careers

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

Related Skills

- Active Learning
- Critical thinking skills
- Operations Analysis
- Problem-solving techniques
- Quality Control Analysis
- Systems Analysis
- Systems Evaluation

Business Administration

Overview

Degree Options at Hartnell:

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

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. 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.

Related Careers

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

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

Business Office Technology

Overview

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*

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

Business Information Worker

Degree Options at Hartnell:

Certificate of Achievement
in:

- *Business Information Worker Level –1*
- *Business Information Worker Level –2*

Overview

BUSINESS INFORMATION WORKER LEVEL 1 This certificate prepares students with basic office skills to perform entry-level business office related tasks. Course offerings introduced the students to concepts such as customer service, office procedures and business communication. In addition, students acquire beginning technology skills that include word processing, spreadsheets, preparation software, personnel management software, and computer literacy.

BUSINESS INFORMATION WORKER LEVEL 2 This certificate is a continuation of the Business Office Professional pathway building on the courses already completed for the Level 1 certificate. Additional courses taken provide a continued focus on the development of office and technology skills including career management, filing procedures and record management, and computer applications including MS Word and personal management software.

Related Careers

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

Related Skills

- Communication skills
- Customer service
- Office technology
- Office etiquette
- Monitoring
- Active listening
- Time management
- Critical thinking
- Computers and electronics
- Service orientation

Construction Management and Architecture

Degree Options at Hartnell:

Associate of Science Degree in Construction Management and Architecture

Overview

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

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

Manufacturing Technology

Degree Options at Hartnell:

*Associate of Science
Degree in Manufacturing
Technology*

Overview

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.

Related Careers

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

Related Skills

- Active listening
- Coordination
- Complex Problem Solving
- Critical thinking
- Customer and personal service
- Management of Material Resources
- Operations Monitoring
- Public safety and security
- Time Management
- Technology Design

Computer Science & Information Systems

Digital Web & Mobile

Development

Degree Options at Hartnell:

*Associate of Science
Degree in Computer
Science & Information
Systems Digital Web &
Mobile Development*

*Certificate of Achievement
in Computer Science &
Information Systems*

- *Mobile Development Option*
- *Web Development Option*

Overview

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.

Related Skills

Related Careers

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

Welding

Overview

Degree Options at Hartnell:

*Associate of Science
Degree in Welding*

*Certificate of Achievement
in Welding*

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.

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.

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

Arts & Languages Meta-Major



Programs in this Meta-Major:

- Communication Studies
- Digital Arts
- English
- English as a Second Language
- Film, Television, and Electronic Media
- Music
- Photography
- Spanish
- Studio Arts
- Theatre Arts & Cinema
- Liberal Arts Emphasis- Humanities
- Liberal Arts Emphasis- Languages & Literature
- General Studies Emphasis- Humanities
- General Studies Emphasis- Language & Rationality.

Why Arts & Languages

Arts & Languages form the basis of society, connecting us to one another. Whether it is advocating for others, writing creatively, exploring a foreign language, learning to give an effective public speech, mastering the nuances of photography, composing music or acting for the stage or screen, this Meta-Major prepares you for careers in education, performing and studio arts, film or language communication. Pursuing a career within Arts & Languages will teach you how to positively impact the world around you.

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)

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

Digital Arts

Overview

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

English

Overview

Degree Options at Hartnell:

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

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

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

English as a Second Language

Degree Options at
Hartnell:

*Certificate of Competency
in English as a Second
Language*

Overview

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 vocabulary, listening, pronunciation, and basic writing tasks. Students will learn and practice communication skills for everyday situations--home, work, school, and the community. Students should be able to read and write in their first language in order to participate successfully.

Program Goal

Completion of this program will prepare students for low intermediate level credit/academic ESL courses.

Film Television & Electronic Media

Overview

Degree Options at Hartnell:

Associate in Arts in Film Television & Electronic Media for Transfer Degree (AA-T)

The Associate in Science degree in Film, Television, and Electronic Media provides a clearly articulated curricular track for students who wish to transfer to baccalaureate Film, Television, and Electronic Media (FTVE) degree programs at a California State University (CSU) campus. This degree provides the lower division FTVE major courses required at many CSUs while exposing students to the core principles of the field. For detailed requirements for individual four-year institutions, students should contact the transfer institution and meet with a counselor for specific transfer course requirements in their major. Courses are designed for the general education student and for those who may pursue FTVE as a major or as a career. Career options include camera operator, production technician, documentary film maker, video producer, radio DJ, radio technician, production assistant, video editor, actor, teacher, or commercial production technician. Careers with a technical emphasis include media

Related Careers

- Actor
- Art director
- Camera Operator
- Commercial Production Technician
- Concert Venue Technician
- Designer
- Documentary Film Maker
- Facilities Manager
- Media Technician
- Production Assistant
- Production Technician
- Radio DJ
- Radio Technician
- Stage Manager
- Teacher
- Technical Director
- Theme park Technician
- Video Editor
- Video Producer

Related Skills

- Graphics or photo imaging
- Music or sound editing
- Video creation and editing
- Communications and Media
- Active Listening
- Critical Thinking
- Active Learning
- Complex Problem Solving
- Oral Communication
- Time Management
- Writing

General Studies with an Area of Emphasis

Degree Options at Hartnell:

Associate in Arts in General Studies with an Area of Emphasis in the following:

- *Humanities*
- *Language and Rationality*

Overview

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

The degree prepares the student for the following:

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

Related Careers

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

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

Liberal Arts with an Area of Emphasis

Degree Options at Hartnell:

Associate in Arts in Liberal Arts with an Area of Emphasis in the following:

- *Humanities*
- *Languages and Literature*

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.

Related Careers

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

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

Music

Overview

Degree Options at Hartnell:

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

Associate of Arts Degree in Music

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.

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

Photography

Overview

Degree Options at Hartnell:

Associate of Arts Degree in Photography

Certificate of Achievement in Photography

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

Spanish

Overview

Degree Options at Hartnell:

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

Associate of Arts Degree in Spanish

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.

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

Studio Arts

Overview

Degree Options at Hartnell:

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

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.

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

Theatre Arts

Overview

Degree Options at Hartnell:

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

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.¹

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.

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>

Theatre Arts and Cinema

Overview

Degree Options at Hartnell:

Associate of Arts Degree in Theatre Arts

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

Related Careers

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

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

Health Sciences Meta-Major



Programs in this Meta-Major:

- Kinesiology
- Public Health Science
- Registered Nursing
- Respiratory Care Practitioner
- Vocational Nursing
- Liberal Arts Emphasis- Psychology.

Why Health Sciences

By enrolling in a Health Sciences program, you can make a difference in others' health and well-being while promoting diversity, equity and accessibility across the lifespan. At Hartnell, careers are available to you in the health sciences related to emergency medical technology, kinesiology, nursing, public health and respiratory therapy. Graduates work in acute care and other environments based within communities or work independently to make a difference in others' health and wellness.

Kinesiology

Overview

Degree Options at Hartnell:

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

Associate of Sciences in Kinesiology Degree

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.

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>

Liberal Arts Emphasis in Psychology

Degree Options at Hartnell:

*Associate in Arts in Liberal
Arts with an Area of
Emphasis in Psychology*

Overview

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).

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.

Related Careers

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

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

Public Health Science

Degree Options at Hartnell:

Associate of Science in Public Health Science for Transfer Degree (AST)

Overview

The Associate in Science in Public Health Science for Transfer degree prepares leaders who promote community health, prevent disease, and improve environmental conditions in which people can be healthy. The Associate in Science in Public Health Science for Transfer degree is interdisciplinary in nature and prepares students for a variety of careers in schools, non-profit organizations, government agencies, hospitals, and wellness programs. The Associate in Science in Public Health Science for Transfer degree provides a clearly articulated curricular track for students who wish to transfer to baccalaureate degree programs at a California State University (CSU) campus in areas such as Public Health, Health Science, Kinesiology with a Health Education or a Health and Wellness Promotion concentration, Collaborative Health and Human Services with Community Health option, and related fields.

Related Careers

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

Related Skills

- Ability to teach/ train
- Writing and presenting
- Organization
- Dealing with parents or guardians
- Summarizing ideas
- Flexibility
- Creativity
- Ability to explain ideas clearly
- Team player
- Detail oriented
- Lesson planning
- Decision making
- Planning
- Computer skills

Registered Nursing

Overview

Degree Options at Hartnell:

*Associate of Science
Degree in Registered
Nursing*

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.

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 and the ability to handle stress
- Physical stamina
- Providing emotional support

¹ <https://careerexploration.appstate.edu/pagesmith/106>

Respiratory Care

Overview

Degree Options at Hartnell:

*Associate of Science
Degree in Respiratory Care
Practitioner*

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. 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

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

Vocational Nursing

Overview

Degree Options at Hartnell:

Associate of Science in Vocational Nursing

Certificate of Achievement in Vocational Nursing

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

Social Sciences Meta-Major



Programs in this Meta-Major:

- Addiction Studies
- Chicana/x Studies
- Early Childhood Education
- Economics
- Elementary Teacher Education
- History
- Law, Public Policy & Society
- Political Science
- Psychology
- Social Justice
- Sociology
- Liberal Arts Emphasis- Anthropology
- Liberal Arts Emphasis- Culture & Society
- Liberal Arts Emphasis- Philosophy
- Liberal Arts Emphasis- Political Science
- Liberal Arts Emphasis- Sociology & Social Sciences
- General Studies Emphasis- Ethnic Groups in the US
- General Studies Emphasis- Social & Behavioral Sciences.

Why Social Sciences

Social & Behavioral Sciences programs study the institutions and functioning of human society, as well as social, cultural and human behavior to help address social issues and inequities. If these topics excite you, you enjoy critical thinking and developing the ability to defend your beliefs and values, you have an intellectual curiosity, and you understand the value of engaging with your community to improve quality of life, this is the right area for you!

Addiction Studies

Overview

Degree Options at
Hartnell:

*Associate of Arts Degree
in Addiction Studies*

*Certificate of
Achievement in Addiction
Studies*

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

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

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

Chicanx Studies

Degree Options at
Hartnell:

*Associate of Arts Degree
in Chicanx Studies*

Overview

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

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

Early Childhood Education

Overview

Degree Options at Hartnell:

Associate in Science in Early Childhood Education for Transfer Degree (AS-T)

Associate of Science Degree in Early Childhood Education

Certificate of Achievement in Early Childhood Education

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

Economics

Overview

Degree Options at Hartnell:

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

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.

Related Careers

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

Related Skills

- Different learning strategies
- Ability to give advice on business
- Ability to prepare and write reports
- Mathematics and science
- Oral and written communication
- Reading comprehension
- Investigative/ Research skills
- Active listening
- Critical thinking

Elementary Teacher Education

Overview

Degree Options at Hartnell:

Associate in Arts in Elementary Teacher Education for Transfer Degree (AA-T)

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

General Studies with an Area of Emphasis

Overview

Degree Options at Hartnell:

Associate in Arts in General Studies with an Area of Emphasis in the following:

- *Ethnic Groups in the U.S.*
- *Social and Behavioral Sciences*

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

The degree prepares the student for the following:

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

Related Careers

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

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

Liberal Arts with an area of Emphasis

Degree Options at Hartnell:

Associate in Arts in Liberal Arts with an Area of Emphasis in the following:

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

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.

Related Careers

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

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

History

Overview

Degree Options at Hartnell:

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

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.

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

Law, Public Policy and Society

Degree Options at Hartnell:

Associate in Arts in Law, Public Policy and Society for Transfer Degree (AA-T)

Overview

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

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

Related Careers

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

Related Skills

- Public Safety and Security
- Law and Government
- Administration and Management
- Oral Comprehension
- Critical Thinking
- Deductive Reasoning
- Written Communication

Political Science

Overview

Degree Options at Hartnell:

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

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.

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

Overview

Degree Options at Hartnell:

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

Associate of Arts Degree in Psychology

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

¹<http://www.cacareerzone.org/majors/detail/42.0101>

Social Justice

Degree Options at Hartnell:

Associate in Arts in Social Justice for Transfer Degree (AA-T)

Overview

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

Related Careers

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

Related Skills

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

Sociology

Overview

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)

Related Careers

- Social Work
- Counseling
- Case Management
- Advocacy
- Mental Health Services
- Programming Administration
- Teaching
- Research
- Public Administration
- Policy Analysis
- Program Development
- Human Services
- City Planning
- Law Enforcement
- Market Research
- Information Sourcing
- Human Resources
- Management
- Sales
- Public Relations

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

STEM Meta-Major



Programs in this Meta-Major:

- Astronomy
- Biology
- Chemistry
- Computer Science
- Engineering
- Engineering Fundamentals
- Geology
- Mathematics
- Physics
- General Studies Emphasis- Natural Sciences.

Why STEM

Science, technology, engineering and math are omnipresent, and with increasing impact on building self-efficacy and contributing to the common good. In STEM, you turn problems into solutions, imagination into innovation and dreams into achievement. Your degree in STEM opens real opportunities for social, economic, intellectual and creative growth. Welcome to your STEM community!

Astronomy

Degree Options at
Hartnell:

*Associate of Science
Degree in Astronomy*

Overview

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.

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

Biology

Overview

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

Associate of Science for Transfer Degree in Biology (AS-T)

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

Chemistry

Overview

Degree Options at
Hartnell:

*Associate of Science for
Transfer Degree in
Chemistry (AS-T)*

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>

Computer Science

Overview

Degree Options at Hartnell:

Associate of Science for Transfer Degree in Computer Science (AS-T)

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

Engineering

Degree Options at Hartnell:

*Associate of Science
Degree in Engineering*

Overview

Engineering is the practical application of math and science to solve problems. Engineers are problem-solvers who make things work faster, cheaper, and more efficiently. Technologies developed by engineers improve the ways that we live, communicate, work, travel, stay healthy, and entertain ourselves. From computer chips to cellphones and buildings to automobiles, engineering makes every aspect of our modern life possible. Hartnell College offers a two-year lower division engineering program that prepares students for transfer in all engineering disciplines to colleges and universities in California and across the United States. The first two years of the engineering curriculum at most colleges and universities have a shared core of mathematics and physics, with specialization in several areas. As there are different disciplines within engineering, the Engineering Faculty Discipline Review Group (FDRG) has developed four different model curricula and each one feeds into one or more majors at the baccalaureate level. The four discipline clusters are: 1. Mechanical, Aerospace, and Manufacturing Engineering 2. Civil Engineering 3. Electrical Engineering 4. Computer and Software Engineering 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.

Related Career

- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Construction Engineer
- Electrical Engineer
- Environmental Engineer
- Industrial Engineer
- Manufacturing Engineer
- Materials Engineer
- Mechanical Engineer
- Nuclear Engineer
- Software Engineer

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

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

Engineering Fundamentals

Degree Options at
Hartnell:

*Certificate of Achievement
in Engineering*

Overview

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

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

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

Related Careers

- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Construction Engineer
- Electrical Engineer
- Environmental Engineer
- Industrial Engineer
- Manufacturing Engineer
- Materials Engineer
- Mechanical Engineer
- Nuclear Engineer
- Software Engineer

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

General Studies Emphasis in Natural Sciences

Degree Options at
Hartnell:

*Associate in Arts in General
Studies with an Area of
Emphasis in Natural
Sciences*

Overview

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).

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

Related Careers

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

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

Geology

Overview

Degree Options at Hartnell:

Associate of Science in Geology for Transfer Degree (AS-T)

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

Related Careers

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

Related Skills

- Observant
- Field sampling
- Gather and analyze data
- Perform calculations
- Develop research models
- Inform, explain, instruct
- Develop research proposals
- Critical thinking and analysis

Mathematics

Overview

Degree Options at Hartnell:

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

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.

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

Physics

Overview

Degree Options at Hartnell:

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

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.

Related Careers

- Aerodynamist
- 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