



HARTNELLCOLLEGE

Addendum

2022-2023

hartnell.edu





HARTNELL COLLEGE

2022-2023 COLLEGE CATALOG ADDENDUM

This supplemental addendum reflects new and revised policies, programs and courses approved after the 2022-2023 Catalog was published.

411 Central Avenue
Salinas, CA 93901
(831) 755-6700
www.hartnell.edu

ACCREDITATION

Hartnell College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, (10 Commercial Boulevard, Suite 204, Novato, CA 94949 (415) 506-0234), The California Board of Registered Nursing, the California Board of Vocational Nursing and Psychiatric Technicians, the Accreditation Commission for Education in Nursing (ACEN). Accreditation by the ACEN is voluntary and insures that Hartnell College's ADN and LVN programs meet the highest standards in nursing education at both the state and national level, the Commission on Accreditation for Respiratory Care (CoARC), Monterey County Emergency Medical Services (EMS), and the California Community Colleges Board of Governors. It has the approval of the State Department of Education to train veterans under Public Law 874 and Public Law 550. It also has the approval of the U.S. Immigration and Naturalization Service to educate foreign students.

HARTNELL COMMUNITY COLLEGE DISTRICT GOVERNING BOARD

Aurelio Salazar, Jr., President
Alejandra González, Vice President
Erica Padilla-Chavez
Margaret D'Arrigo
Candi DePauw
Irma C. Lopez
Ray Montemayor
Laura Rivera, Student Trustee
Michael Gutierrez, Superintendent/President and Board Secretary

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ACCURACY STATEMENT

The Hartnell Community College District has made every reasonable effort to ensure that information in this catalog is accurate. Courses and programs that are offered, along with other matter contained herein, are subject to change without notice by Hartnell College administration for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add to, amend, or repeal any of their rules, regulations, policies, and procedures, consistent with applicable laws.

HARTNELL COLLEGE EMERGENCY COMMUNICATIONS

Campus Security:
(831) 755-6888

Maintenance:
(831) 755-6950

Facility Emergency Hotline:
(831) 755-6700, x5700

Office of Student Affairs:
(831) 755-6822

Office of Academic Affairs:
(831) 770-7090

Advanced Technology Office:
(831) 755-6960

Website Pop-Up Emergency Notice:
<https://www.hartnell.edu/about/safety/emergency/>

Student Activities Fee

The Student Activities Fee is a student fee (currently \$10 per semester) and is charged to all students at all Hartnell College locations. This fee funds activities and services for Hartnell College students. Part of this fee supports the Associated Students of Hartnell College student clubs, and governance activities. Other services/benefits for ID card holders are: ASHC scholarships, book voucher program, educational workshops, recognition awards, cultural workshops and events, merchant discounts, Monterey-Salinas Transit Free Fare Zone, free access to Hartnell home sporting events, and free access to Hartnell's Western Stage Regular Season.

The ID card is the official identification used for many of the services at Hartnell College such as: Hartnell's Library, and Admissions & Records and Financial Aid Offices. The Student Activities Fee should accompany your registration payment and is paid at the time enrollment fees are paid. The Student Activity fee will be refunded ONLY if the student withdraws from Hartnell College (see refund policy for deadlines) and/or requests a refund prior to the issuance of the student ID card. Students may also apply for a Student Activities Fee Waiver prior to registering for classes and/or prior to paying their fees. A Student Activities Fee Waiver form is available at the Office of Student Life and at the Cashier's Office.

AB-1504 Student Representation Fee

Supports lobbying efforts by students for their rights. *As of January 1, 2020, any student registered for classes will be charged a \$2 student representation fee in compliance with AB1504. This is a mandatory fee. To appeal, submit the fee waiver form.

STUDENT: _____ **ID#:** _____ **MAJOR:** _____

DIRECTIONS: Enter courses/units completed at other colleges or enter name of AP Exam in the "Other" column (see Catalog for more information on AP exams).

AREAS A - F * **LEGEND** **C= COMPLETED | IP= IN PROGRESS | N= NEEDED** **OTHER | AP EXAM** **C** **IP** **N**

English Language Communication & Critical Thinking (9 units minimum)
Select one course from each area.

A
A1 - Oral Communication (3 units): COM 1, 2, 3, 5
A2 - Written Communication (3 units): ENG 1A, 1AX
A3 - Critical Thinking (3 units): ENG 1B (F15), 2 ; COM 2; PHL 15

| | | | | |
|----|--|--|--|--|
| A1 | | | | |
| A2 | | | | |
| A3 | | | | |

Scientific Inquiry & Quantitative Reasoning (9 units minimum)
Select one course from each group. One laboratory science required (Labs underlined).

B
B1 - Physical Science (3 units required): ABT 90; AST 1; CHM 1A, 1B, 12A, 12B, 22, 23, 60; GEG 1; GEL 1, 2, 6, 25; MET 1; OCN 1
 PHY 2A, 2B, 4A, 4B, 4C, 10, 32
B2 - Life Science (3 units required): ABT 92; ANT 1
 BIO 1, 2, 3, 5, 6, 6L, 10, 11, 12, 13, 18, 20, 27, 30, 42, 47, 48; PSY 10
B3 - Lab Activity: ABT 90, 92; AST 1L; BIO 1, 2, 3, 5, 6L, 10, 11, 20, 27, 30, 47, 48L
 CHM 1A, 1B, 12A, 12B, 22, 23, 60; GEL 1, 6; PHY 2A, 2B, 4A, 4B, 4C, 10, 32
B4 - Mathematical Concepts, Quantitative Reasoning & Applications (3 units minimum)
 MAT 2, 3A, 3B, 3C, 4, 5, 7, 10, 12, 13, 16, 18, 24, 25, 27

| | | | | |
|----|--|--|--|--|
| B1 | | | | |
| B2 | | | | |
| B3 | | | | |
| B4 | | | | |

Arts & Humanities (9 units minimum).
Select at least one course from Area C1 and one course from Area C2.

C
C1 – Arts (3 units required):
 ART 1A, 1B, 10, 19 (F20); ETH 7, 56; MUS 1A, 5, 6, 7, 8; PHO 1
 TAC 1, 2, 3, 7, 23, 50, 53, 92 (F21)
C2 – Humanities (3 units required): ASL 1 (F17), 2, 3; ENG 1B, 17, 22, 24, 26, 31, 32, 33, 41, 44A, 44B, 46A, 46B, 47, 48; ETH 12; HIS 5A, 5B, 6, 17A (F16), 17B (F16), 40, 47, 55; PHL 2, 10; SPA 1, 1S, 1X, 2, 2S, 2X, 3, 3S, 4, 4S

| | | | | |
|---------|--|--|--|--|
| C1 | | | | |
| C1 or 2 | | | | |
| C2 | | | | |

Social Sciences (6 units minimum)

D
 ABT 53; ADJ 1, 3, 51; ANT 1, 2, 10, 20; BUS 32; COM 4;
 ECO 1, 5, 10; ECE 2, 53 (F21); EDU 1; ETH 1, 2, 3, 4, 5, 6, 8, 13, 21; GEG 1, 10;
 HED 7 HES 1, 2; HIS 4A, 4B, 5A, 5B, 6, 10, 17A, 17B, 40 (F21), 46A, 46B, 47, 49A, 49B, 55 POL 1, 2, 3, 5, 6; PETH 5; PSY 2, 6, 9 (F20), 12, 14, 15, 22, 25, 33, 41, 42
 SOC 1, 5, 15, 20, 30, 41, 42; SJS 20, 21, 22; TAC 23

| | | | | |
|----|--|--|--|--|
| D1 | | | | |
| D2 | | | | |

Lifelong Understanding & Self-Development (3 units minimum)

E
 BIO 42; COU 1, 23, 27; ECE 6 (formerly FCS 14); GEL 25
 HED 2, 6, 7; HES 1, 3; NUTR 1 (formerly FCS 23); PETH 1, 4
 PSY 14, 15, 25, 33, 41, 42; SOC 5, 41; NVN/NRN 70 (F17)

| | | | | |
|---|--|--|--|--|
| E | | | | |
|---|--|--|--|--|

Ethnic Studies (3 units minimum)

F
 ETH 1 (F21), 2 (F21), 3 (F21), 4 (F21), 7 (F21), 8, 13, 21, 56; TAC 7 (F21)

Students who began taking classes at Hartnell College prior to Fall 2021, and maintain Catalog Rights, may complete other requirements; see a counselor for further information.

| | | | | |
|---|--|--|--|--|
| F | | | | |
|---|--|--|--|--|

US HISTORY, CONSTITUTION, & AMERICAN IDEALS (CSU Graduation Requirement)

NOTE: Courses used to meet this requirement may also be used to satisfy requirements as courses listed in CSU GE Breadth Areas C2 or D (at the option of the receiving CSU campus).

Two courses are needed to meet requirement:

US 1: Choose one course: HIS17A or HIS17B or HIS 40, &
US 2 & US 3: Choose one course: ETH 5 or POL 1 or POL 5

Students are encouraged to complete these two courses prior to transfer as part of their lower division courses.

HIS17A or HIS17B or HIS 40 ETH 5 or POL1 or POL 5

PLEASE NOTE: ALTHOUGH COURSES MAY BE LISTED IN TWO AREAS, THEY CAN ONLY BE COUNTED IN ONE AREA.

MINIMUM ADMISSION REQUIREMENTS FOR CSU TRANSFER STUDENTS

1. Complete 60 semester units of transferable college credit with a GPA of at least 2.0
2. Complete a minimum of 30 semester units of college courses with a grade of "C" or better in each course to be selected from courses in English, mathematics, arts and humanities, science and social sciences at a level equivalent to courses that meet general education requirements. The 30 semester units must include courses that satisfy CSU GE Areas A1, Oral Communication; A2, Written Communication; A3, Critical Thinking; and B4, Mathematics / Quantitative Reasoning.

Completion of the CSU GE Certification Pattern will satisfy the course requirements for the minimum admissions requirements listed above (#2). Although not required for admission to the CSU, students are encouraged to complete the CSU GE Certification Pattern prior to transfer. For impacted or competitive CSU campuses and majors there may be additional requirements such as completion of specific major courses, completion of certain general education courses by certain semesters, and/or higher grade point averages (see a counselor for more information).

CSU GE CERTIFICATION "Certification": means that Hartnell College has verified that a student has completed the lower division general education requirements for the California State University. Certification is important because without it students will be held to the general education requirements specific to the CSU campus to which the student transfers. Courses from other colleges and universities may be considered for certification by petition through a process called "**pass along certification**": 1) courses taken at CSU campuses, participating private colleges and universities, and other California Community Colleges will be certified in the subject areas (AREA A - F) approved by the institution where the courses were taken, 2) courses taken at other regionally accredited colleges and universities will be certified only if the course is determined to be equivalent to a course in Hartnell College' CSU GE Certification Pattern. Courses deemed equivalent would be certified in the areas (AREA A - F) in which the equivalent Hartnell College' courses have been approved. **It is the student's responsibility to request certification by submitting a form to Admissions & Records or by making a note in the "Special Instructions" box when submitting online Transcript Request.**

CSU GE for STEM Majors within ADTs: (<https://calstate.policystat.com/policy/8919100/latest/>)

Students pursuing certain ADTs may be eligible to take "GE Breadth for STEM," deferring one lower-division course in Sub-area C and one lower-division course in Sub-area D until after transfer. GE Breadth for STEM is applicable only to majors for which the Transfer Model Curriculum specifies GE Breadth for STEM. The AA-T/AS-T degree catalog page lists the degrees approved for CSU-GE for STEM.

CSU GE Breadth for STEM certification requires that the student has completed:

- A. All courses in Areas A, B, E and F of the GE curriculum; and
- B. One course in Area C1 Arts and one course in Area C2 Humanities; and
- C. One course in Area D.

EXTERNAL EXAMINATIONS APPROVED TO CLEAR SPECIFIC CSU GE AREAS: Advanced Placement (AP), International Baccalaureate (IB) and College Level Examination Program (CLEP). See the current Hartnell College catalog pages on External Examinations that indicate equivalent general education area or elective units that could apply with appropriate scores. (Examinations may also be included in the CSU GE Certification).

VISIT THE COUNSELING DEPARTMENT

Students are encouraged to make an appointment with a counselor to discuss their educational plan as they relate to this advisory sheet. For an appointment, call or visit www.hartnell.edu/students/programs/counseling
831-755-6820 Main Campus | 831-386-7100 King City Center | 831-759-6093 Alisal Campus

CSU-GE UNITS CERTIFIED

Area A ____ Area B ____ Area C ____ Area D ____ Area E ____ = Total units ____

Evaluated by: _____ Date _____

AGRICULTURE WITH AN AREA OF EMPHASIS

PROGRAMS

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



**HARTNELL
COLLEGE**

DESCRIPTION

The Associate of Science degree in Agriculture is intended for students interested in a wide range of career and educational pathways. Those who are interested in farm management, harvest operations, agriculture research, and other areas of production agriculture would benefit from this degree. Several areas of emphasis create career pathways for students wanting to work in Agriculture, or eventually transfer to a specialized higher degree.

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

LEADS TO CAREER OPPORTUNITIES SUCH AS:

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

TRANSFER PREPARATION

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

TRANSFER RESOURCES

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

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

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

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

AGRICULTURE WITH AN AREA OF EMPHASIS (AS.AGRI)

ASSOCIATE OF SCIENCE

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

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

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

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

Required Major Courses--Complete ONE AREA OF EMPHASIS

AGRICULTURE BUSINESS

The Agriculture Business Emphasis is intended for students interested in entrepreneurship, or as a foundation for transfer to a four-year college or university to pursue a higher degree in agriculture business or related field.

- AGRICULTURE BUSINESS (14-16 units)**
 - **Complete:** ABT-49, and ABT-53, and ABT-110
 - Complete **2 courses** from ABT-52, ABT-54, ABT-80, ABT-160, BUS-1A, or BUS-18

AGRICULTURE PRODUCTION

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

- AGRICULTURE PRODUCTION (14 units)**
 - **Complete:** ABT-110
 - Complete **2 courses** from ABT-95, ABT-96, ABT-97, ABT-98**Complete 6 units from Major Electives**
 - ABT-41 (*recommended*), ABT-83 (*recommended*), ABT-80, ABT-81, ABT- 82, ABT-83, ABT-93, ABT-94, ABT-101, ABT-102, ABT-103, ABT-104, ABT-105, ABT- 130, ABT-160, MFGT-70, or MFGT-71, or MFGT-75

FOOD SAFETY

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

- FOOD SAFETY (14-15 units)**
 - **Complete:** ABT-130, ABT-131, ABT-132, ABT-133, ABT-134, & ABT- 135
 - Complete **2 courses** from: ABT-80, ABT-110, ABT-160, COM-2 (*recommended by advisory for career preparedness*)

HORTICULTURE TECHNICIAN

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

- HORTICULTURAL TECHNICIAN (15 units)**
 - **Complete:** ABT-49, ABT-83, & ABT- 98
 - Complete **2 courses** from: ABT-95, ABT-96, ABT-97, ABT-160

SMALL FARM OPERATION AND MANAGEMENT

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

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

- SMALL FARM OPERATION AND MANAGEMENT (20 units)**
 - **Complete:** ABT-94, ABT-101, ABT-102, ABT-103, ABT-104, ABT-105, & ABT-130
 - Complete **2 courses** from: ABT-95 ABT-96, ABT-97, ABT-98
 - Complete 3 units from Major Electives**
 - ABT-41 (*recommended*), MFGT-70, or MFGT- 71, or MFGT- 75 (*recommended*), ABT-80, ABT-81, ABT-83, ABT-93, ABT-160, ABT-131, ABT-135

SUSTAINABLE CROP MANAGEMENT

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

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

- SUSTAINABLE CROP MANAGEMENT EMPHASIS (15 units)**
 - **Complete:** ABT-41, ABT-80, & ABT-83
 - Complete **6 units** from: ABT-81, ABT-82, ABT-93, ABT-95, ABT-96, ABT-97, ABT-98, ABT-160, ABT-101, ABT-102, or MFGT-70

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (*see page 68*) **MAT-126 or higher**

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

SUBTOTAL: 21 UNITS

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

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

TOTAL: 60 UNITS

AGRICULTURE BUSINESS (CT.AGR)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (21-24 units)

| | | |
|--------------------------|--|---------|
| <input type="checkbox"/> | ABT-110 – Careers in Agriculture and Technology | 2.0 |
| <input type="checkbox"/> | ABT-49 – Introduction to Agriculture Business | 3.0 |
| <input type="checkbox"/> | ABT-54 – Agriculture Marketing | 3.0 |
| <input type="checkbox"/> | ABT-58 – Agriculture Laws & Regulations | 3.0 |
| <input type="checkbox"/> | ABT-90 – Soil Science | 3.0 |
| <input type="checkbox"/> | ABT-92 – Plant Science | 3.0 |
| <input type="checkbox"/> | ABT-99 – Cooperative Work Experience | 1.0-3.0 |
| <input type="checkbox"/> | ABT-57 – Agriculture Computer Applications | 3.0 |
| | OR | |
| | BUS-43 – Business Info Systems and Info Literacy | 4.0 |
| | OR | |
| | BUS-50 – Introduction to PC Applications | 4.0 |

Major Electives (Complete 6 units)

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

Other Required Courses

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

TOTAL: 27-30 UNITS

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

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

GAINFUL EMPLOYMENT INFORMATION:

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

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

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

AGRICULTURE PRODUCTION (CT.AGRP)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (15-18 units)

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

Major A Electives (Complete 6 units)

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

Major B Electives (Complete 6 units)

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

Other Required Courses

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

GAINFUL EMPLOYMENT INFORMATION:

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

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

<https://www.hartnell.edu/student-services/financial-aid/net-price-calculator.html>

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

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

TOTAL: 27-30 UNITS

FOOD SAFETY (CT.AGFS)

CERTIFICATE OF ACHIEVEMENT

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

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

Required Major Courses (12 units)

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

Other Required Courses

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

TOTAL: 12 UNITS

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

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

GAINFUL EMPLOYMENT INFORMATION:

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

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

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

COURSE LISTINGS

AOD-99, Practicum in Chemical Dependency (4)

Pass/No Pass

Prerequisite: AOD-1, AOD-2, AOD-3, AOD-4, AOD-5, AOD-6, AOD-9, AOD-11

Designed for students in their last semester of the AOD program, this course provides students with a hands-on learning experience via a directed field study. Emphasis is placed on enabling the student to experience and perform the work of a chemical dependency counselor. Students must complete at least 255 hours of volunteer experience or 300 hours of paid work experience in an approved facility to meet unit requirements and CAADAC/CCBADC accreditation standards for practicum experience. Instructor will facilitate internship/job placement and development of individualized goals.

ESL-265, Academic Writing and Reading I (5)

Lab 80-90 Hrs

Introduction to college reading and composition for multilingual and ESL students. Emphasis on the paragraph and short essay. Prepares students for ESL-101 or ENG-101.

ESL-295, English and Spanish in the Community (1)

Lab 48-54 Hrs

This course is organized around a partnership between English and Spanish language learners that allows them to develop interpretive, presentational, and interpersonal listening and speaking skills and intercultural communicative competence, through activities, projects, and authentic interactions with speakers of their target language.

PHL-5, Africana Philosophy (3)

Pass/No Pass

Lec 48-54 Hrs

This course will explore the genealogy and the cultural logic Black philosophies that have rooted and shaped Black intellectual history from the 19th century to the present. Students will learn to analyze the ideas and debates between Americanist and Pan-African/Africanist traditions, Ethiopianism, the American Negro-Academy, the Haitian Revolution, Black Nationalism, and Black Male Studies.

SOC 8 Sociology of Food, Culture, and Society (3)

Advisory: ENG-1A or ENG-1AX

Lec 48-54 Hrs

Introduces students to the sociological examination of food, culture and society both at the macro (institutional) and micro (individual) level—examining the social relations associated with the production, distribution, preparation, and consumption of food and impact in society. Social, political, and spiritual aspects of food in ethnic and racial communities in the U.S. is explored. Topics to be examined range from colonialism and global food systems, indigenous knowledge systems, the material and cultural connections of food, food security, and hunger; inequality, ethnic and immigrant food traditions, cultural identity, societal influences on food ranging from social institutions (family, work, diet culture industry, economy, religion, government, etc) to identities (personal and group) to social inequalities and social change. An intersectional, racial justice, decolonial, health at every size, and intuitive eating lens is used throughout this course.