

# 2015-2016 eCatalog



## Accountant

A.A.S. Degree • 71 Credits

AAS 2214/AAS 3230

### Degree Description

The A.A.S. Degree in Accounting is designed to prepare learners to examine, analyze and interpret accounting data for the purpose of giving advice and preparing financial statements. Responsibilities may include recording receipts, recording disbursements, closing year end records, compiling financial statements, preparing internal management, and/or state and federal reports. Accountants perform these duties both manually and with computer assistance.

**Admission Dates: Fall and Spring Semester**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Accounting department. [See the Accounting department page for more details](#)

### Required Technical Courses (16 Courses)

Complete all of the following courses:

- [ACCT1800](#) Business Law (3 Credits)
- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT1814](#) Payroll Accounting (3 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT1835](#) Computerized Accounting II (3 Credits)
- [ACCT1870](#) Professional Accounting Careers (1 Credit)
- [ACCT2821](#) Intermediate Accounting I (3 Credits)
- [ACCT2822](#) Intermediate Accounting II (3 Credits)
- [ACCT2847](#) Fraud, Auditing and Internal Controls (4 Credits)
- [ACCT2861](#) Cost Accounting I (4 Credits)
- [ACCT2862](#) Cost Accounting II (3 Credits)
- [ACCT2863](#) Fund/NonProfit Accounting (3 Credits)
- [ACCT2864](#) Income Tax I (4 Credits)
- [ACCT2865](#) Income Tax II (3 Credits)
- [ACCT2900](#) Accounting Review (3 Credits)

### Elective Credits (3 Credits)

Choose 3 credits from ACCT, MKT,COMP,OTEC or ECON (ECON 110 and 120 will not count toward this requirement).

- [ECON110](#) Principles of Macroeconomics (3 Credits)
- [ECON120](#) Principles of Microeconomics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (5 Courses)

To complete the Accountant AAS Degree, students must complete 17 MNTC credits from 3 of the 10 MNTC Goal areas.

The following courses are required:

- [COMM140](#) Interpersonal Communication (3 Credits)
- [ENGL100](#) Composition (4 Credits)

[COMM110](#) Public Speaking (3 Credits)

Or

[COMM120](#) Small Group Communication (3 Credits)

[ECON110](#) Principles of Macroeconomics (3 Credits)

Or

[ECON120](#) Principles of Microeconomics (3 Credits)

[MATH115](#) Concepts in Math (4 Credits)

Or

[MATH120](#) College Algebra (4 Credits)

Or

[MATH154](#) Elementary Statistics (4 Credits)

## Accounting Technician

A.A.S. Degree • 67 Credits

AAS 2242/AAS 3259

### Degree Description

The A.A.S. degree in Accounting Technician is designed to prepare students for a crossfunctional position that emphasizes working in an advanced electronic office environment. Typical responsibilities would be installation and operation of accounting software packages, computerized processing of federal and state reporting forms, information processing, graphical presentation of reports, and database management.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Accounting department. [See the Accounting department page for more details](#)

### Required Technical Courses (14 Courses)

Complete all of the following courses:

- [ACCT1800](#) Business Law (3 Credits)
- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT1814](#) Payroll Accounting (3 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT1835](#) Computerized Accounting II (3 Credits)
- [ACCT1870](#) Professional Accounting Careers (1 Credit)
- [ACCT2821](#) Intermediate Accounting I (3 Credits)
- [ACCT2847](#) Fraud, Auditing and Internal Controls (4 Credits)
- [ACCT2861](#) Cost Accounting I (4 Credits)
- [ACCT2864](#) Income Tax I (4 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)

### Technical Electives (3 Credits)

Choose a minimum of 3 from either ACCT, COMP, MKT, OTEC or ECON.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (5 Courses)

To complete the Accounting Technician AAS Degree, students must complete 17 MNTC credits from 3 of the 10 MNTC Goal areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [ECON110](#) Principles of Macroeconomics (3 Credits)
- Or
- [ECON120](#) Principles of Microeconomics (3 Credits)
- [MATH115](#) Concepts in Math (4 Credits)
- Or
- [MATH120](#) College Algebra (4 Credits)
- Or
- [MATH154](#) Elementary Statistics (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)

## Accounting Assistant Diploma • 34 Credits

DIP 2229/DIP 3242

---

### Degree Description

An accounting assistant performs any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. In addition, the accounting assistant prepares daily bank deposits, writes checks, and maintains a cash disbursement system. All Accounting Assistant diploma courses can be applied toward an A.A.S. degree in Accounting.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Accounting department. [See the Accounting department page for more details](#)

### Required Technical Courses (8 Courses)

Complete the following courses:

- [ACCT1800](#) Business Law (3 Credits)
- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT1814](#) Payroll Accounting (3 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT1835](#) Computerized Accounting II (3 Credits)
- [ACCT1870](#) Professional Accounting Careers (1 Credit)
- [ACCT2847](#) Fraud, Auditing and Internal Controls (4 Credits)

### Elective Credits (5 Credits)

Choose 5 credits from any of the following Technical and/or Liberal Arts and Sciences courses:

- [ACCT2827](#) Principles of Finance (3 Credits)
- [ACCT2850](#) Accounting Internship (1 - 8 Credits)
- [ACCT2863](#) Fund/NonProfit Accounting (3 Credits)
- [ACCT2864](#) Income Tax I (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)

### Required Liberal Arts and Sciences (1 Course)

Complete the following course:

- [ENGL100](#) Composition (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Accounting Technician Diploma • 48 Credits

DIP 2213/DIP 3241

---

### Degree Description

The Accounting Technician monitors and controls various types of electronic data processing equipment used to process accounting data. Applications would include automated general ledger and other sub-systems, spreadsheet applications, database management, and the use of graphics. All Accounting Technician diploma courses can be applied toward an Accountant A.A.S degree.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Accounting department. [See the Accounting department page for more details](#)

### Required Technical Courses (12 Courses)

Complete all of the following courses:

- [ACCT1800](#) Business Law (3 Credits)
- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT1814](#) Payroll Accounting (3 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT1835](#) Computerized Accounting II (3 Credits)
- [ACCT1870](#) Professional Accounting Careers (1 Credit)
- [ACCT2821](#) Intermediate Accounting I (3 Credits)
- [ACCT2847](#) Fraud, Auditing and Internal Controls (4 Credits)
- [ACCT2861](#) Cost Accounting I (4 Credits)
- [ACCT2863](#) Fund/NonProfit Accounting (3 Credits)
- [ACCT2864](#) Income Tax I (4 Credits)

### Required Liberal Arts and Sciences (1 Course)

Complete the following course:

- [ENGL100](#) Composition (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Credits (5 Credits)

Choose 5 credits from the following Technical and/or Liberal Arts and Sciences courses:

- [ACCT2827](#) Principles of Finance (3 Credits)
- [ACCT2850](#) Accounting Internship (1 - 8 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)

## Payroll Clerk

Certificate • 23 Credits

CERT2248/CERT3270

---

### Degree Description

A payroll clerk fills the need for timely and accurate payroll cost information. This certificate is a series of courses that provide entry-level skills in payroll accounting. This includes the recording function all the way through to the disbursement of the checks. With constant changes in the legal environment and technological advances, this occupation is critical. All Payroll Clerk certificate courses can be applied toward an A.A.S. degree in Accounting, Accounting Assistant Diploma and Accounting Technician Diploma.

**Admission Dates: Fall and Spring Semester**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Accounting department. [See the Accounting department page for more details](#)

#### Required Technical Courses (5 Courses)

Complete all of the following courses:

- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1814](#) Payroll Accounting (3 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT1835](#) Computerized Accounting II (3 Credits)
- [ACCT1870](#) Professional Accounting Careers (1 Credit)

#### Elective Credits (9 Credits)

Choose 9 credits from any of the following Technical and/or Liberal Arts and Sciences courses:

- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT2847](#) Fraud, Auditing and Internal Controls (4 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Agricultural Education Technology Partnership

A.S. Degree • 60 Credits

AS 3129

### Degree Description

The need for agricultural educators has created a unique partnership between South Central College and the University of Minnesota. The key is that this is not a regular transfer program. The 2 + 2 Partnership program allows learners to complete their first two years at SCC and apply every course toward a 4-year Ag Education degree from the University of Minnesota. All of the SCC credits in this program will be applied to a Bachelor of Science degree in Agricultural, Food and Environmental Education at the University of Minnesota, with a specialization in Agricultural Science and Technology Education. Learners' advisors will work with them to make sure that all your courses meet degree requirements. Please note that courses are subject to change. Some courses are delivered through interactive television (ITV) and online distance technologies. By working with the University of Minnesota to develop this partnership program, South Central College has given individuals a great start toward a life impacting career in Agricultural Education

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (7 Courses)

Complete all of the following courses:

- [AGBS1100](#) Agricultural Selling Skills (3 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [ANSC2100](#) Principles of Animal Nutrition (3 Credits)
- [MEAG1610](#) Ag Equipment Maintenance (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [PLSC1400](#) Agronomy II (3 Credits)

### Required Liberal Arts and Sciences

Completing the Minnesota Transfer Curriculum (MnTC) requirements alone satisfies the lower division general education requirement at all Minnesota two and four-year colleges and universities.

To complete the Minnesota Transfer Curriculum, students must:  
A) Complete all 10 goals  
B) Complete at least 40 college-level credits from courses listed within the 10 goal areas of the MnTC.  
C) Earn a cumulative GPA of 2.0 or higher in all MnTC courses.

### Other Recommended Courses

The following courses are offered through the University of Minnesota Twin Cities through distance education. These courses are not specifically required to complete your degree at South Central College

- [AFEE1001](#) Introduction to Agricultural Education and Extension (1 Credit)
- [AFEE1002](#) Principles of Career Planning for Ag Professionals (1 Credit)
- [AFEE2096](#) Professional Practicum in Ag Education: Early Experience (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Agribusiness Office Specialist/Manager

A.A.S. Degree • 72 Credits

AAS 3126

### Degree Description

The Agribusiness Office Specialist/Manager program prepares learners with the understanding, knowledge and skills to manage or staff a modern farm or agribusiness firm office. The program provides specific office skills necessary to function in an agribusiness office setting, as well as the agricultural background to work with producers and customers.

### Degree Student Learning Outcomes

1. Demonstrate effective participation on an agribusiness team
2. Demonstrate verbal and written business communications
3. Demonstrate input technology
4. Demonstrate promotion and selling of agricultural services and products
5. Utilize information organization and retrieval systems
6. Develop and maintain records required for successful employment
7. Apply knowledge of computer applications/operating system software.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (15 Courses)

Complete the following courses:

- [AGBS1100](#) Agricultural Selling Skills (3 Credits)
- [AGBS2150](#) Agribusiness Financial Management (4 Credits)
- [AGEC1100](#) Agricultural Economics (3 Credits)
- [AGRI1800](#) Employer/Employee Issues (2 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [AGRI2780](#) Agribusiness Internship (1 - 9 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [OTEC1815](#) Keyboarding for Speed and Accuracy (2 Credits)
- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1840](#) Business Presentations (3 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2814](#) Office Procedures (4 Credits)
- [OTEC2870](#) Information Resource Management (3 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

### Required Liberal Arts and Sciences (3 Courses)

To complete an AAS Degree, students must complete 15 MnTC credits from 3 of the 10 MNTEC Goal Areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [ECON110](#) Principles of Macroeconomics (3 Credits)
- Or
- [ECON120](#) Principles of Microeconomics (3 Credits)

### Technical Electives (10 Credits)

Choose 10 credits from the following courses:

- [AGBS2990](#) International Field Study (3 Credits)
- [AGEC2400](#) Marketing Principles (3 Credits)
- [AGEC2450](#) Commodity Marketing Strategies (2 Credits)
- [AGEC2500](#) Agricultural Transfer and Law (2 Credits)
- [ANSC2100](#) Principles of Animal Nutrition (3 Credits)
- [OTEC2815](#) Employment Portfolio (3 Credits)
- [OTEC2820](#) Business Communications (3 Credits)
- [OTEC2830](#) Microsoft Publisher (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1205](#) Precision Agriculture (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Liberal Arts and Sciences

Select 5 additional MnTC credits in goals 1-10. Courses must be selected in consultation with advisor/faculty. Recommended courses are: COMM 110, BIOL 101, PSYC 100, PHIL 100.

## Agribusiness Production

A.A.S. Degree • 72 Credits

AAS 3152

### Degree Description

Emphasis Areas available include: Agronomy, Animal Science, Diversified

Program emphasis areas provide learners with an opportunity for study in the areas of plant and animal production. The crop production areas consist of selection, planning, management, harvesting, and marketing. Areas of soil science are also studied focusing on fertility, conservation, and tillage. The animal production study consists of areas in breeding, feeding, care, management, and marketing. In addition, courses in farm machinery, buildings and structures, farm management, farm accounting, farm business analysis, and farm business reorganization provide a broad-based program of study. Learners will be required to keep a complete farm record for analysis and interpretation. An on-the-farm internship will be required. The A.A.S. Degree includes 15 credits of Liberal Arts and Sciences and the Diploma includes up to 6 credits of Liberal Arts and Sciences respectively.

### Degree/Diploma Student Learning Outcomes

1. Prepare and assess a livestock management plan
2. Develop and assess a soil and crop management plan
3. Perform farm business operations
4. Utilize a comprehensive farm business plan
5. Demonstrate approved management practices used to select, cultivate and harvest agricultural crops
6. Demonstrate effective participation in an agribusiness team

### Admission Dates: Fall and Spring Semester

#### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

#### Required Technical Courses (11 Courses)

You must complete all of the following classes:

- [AGEC1100](#) Agricultural Economics (3 Credits)
- [AGEC1200](#) Principles of Farm Records (3 Credits)
- [AGEC2400](#) Marketing Principles (3 Credits)
- [AGEC2250](#) Farm Business Planning & Analysis (4 Credits)
- [AGEC2500](#) Agricultural Transfer and Law (2 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [MEAG1500](#) Facility Maintenance (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

#### Agribusiness Emphasis Areas (17 Credits)

Select at least 17 credits from one of the following Agribusiness emphasis areas.

Animal Science Emphasis: ANSC1105,1200,1205,1305  
ANSC2100, SWPR1050,1200,1300,1500,2000, PLSC1105,  
AGRI1800, AGECE2450,2600

Agronomy Emphasis: PLSC1105,1200,1205,1400,2100,2700,  
MEAG1610, AGRI1800, AGECE2450,2600

Diversified Emphasis: Select 14 credits from any of these departments: AGECE, AGBS, AGRI, ANSC, MEAG, PLSC or SWPR.

#### Internship (11 Credits)

Complete 11 credits

[AGRI2780](#) Agribusiness Internship (1 - 9 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Liberal Arts and Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

## Agribusiness Service and Management

A.A.S. Degree • 72 Credits

AAS 3150

### Degree Description

Emphasis Areas available include: Agronomy, Animal Science, Diversified

Program emphasis areas are designed to prepare learners to sell and deliver services as employees of agribusiness firms in the crop and livestock related industries. Duties include performance of retail and office procedural tasks, preparation and implementation of marketing programs, sales and sales management, preparation of financial and business reports, delivery of products and services, and managing selected aspects of these businesses. The program includes technical agriculture courses in the areas of plant, soil, and animal science as well as agricultural industry equipment operation and maintenance. The courses in business include the subject areas of accounting, business procedures, interpersonal communication, financial/business management, marketing, selling, and computer operations. An 11 credit supervised occupational internship in an agribusiness firm is required. The A.A.S. Degree includes 15 credits of Liberal Arts and Sciences and the Diploma includes up to 6 credits of Liberal Arts and Sciences respectively.

### Degree/Diploma Student Learning Outcomes

1. Demonstrate effective participation on an agribusiness team
2. Maintain and safely operate industry equipment
3. Demonstrate financial management skills
4. Demonstrate promotion and selling of agricultural services and products
5. Develop and maintain records required for successful employment

### Admission Dates: Fall and Spring Semester

#### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

#### Required Technical Courses (9 Courses)

You must complete all of the following classes:

- [AGBS1100](#) Agricultural Selling Skills (3 Credits)
- [AGBS2150](#) Agribusiness Financial Management (4 Credits)
- [AGEC1100](#) Agricultural Economics (3 Credits)
- [AGEC2400](#) Marketing Principles (3 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

#### Agribusiness Emphasis Areas (22 Credits)

Select at least 22 credits from one of the following Agribusiness emphasis areas.

Animal Science Emphasis: ANSC1105,1200,1205,1305  
ANSC2100, SWPR1050,1200,1300,1500,2000, PLSC1105,  
AGRI1800, AGECE2450,2600

Agronomy Emphasis: PLSC1105,1200,1205,1400,2100,2700,  
MEAG1500,1700, AGBS2105, AGECE2600

Diversified Emphasis: Select 19 credits from any of these departments: AGECE, AGBS, AGRI, ANSC, MEAG, PLSC or SWPR.

#### Internship (11 Credits)

Complete 11 credits

[AGRI2780](#) Agribusiness Internship (1 - 9 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Liberal Arts and Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

## Agribusiness Service Technician

A.A.S. Degree • 72 Credits

AAS 3127

### Degree Description

This degree provides an opportunity for study in the area of agricultural power and mechanization. The major areas of study include gasoline and diesel engine component repair including the support lubrication, cooling, air intake, exhaust, and basic fuel systems. Other areas of emphasis are power trains (clutches and transmissions), DC electrical systems and monitors, hydraulics, and diesel fuel systems (nozzles and injection pumps). In addition, safety, air conditioning and outdoor power products complete the technical course offerings. The curriculum will provide both basic and advanced technical instruction. This degree includes a Liberal Arts & Sciences component of 15 credits.

### Degree Student Learning Outcomes

1. Perform assembly, repair, operation, and adjustment of machinery and power units
2. Conduct trouble shooting of agricultural power units and machinery
3. Diagnose and repair tractor systems and equipment
4. Perform parts department operations
5. Perform metal welding and fabrication
6. Perform work using appropriate safety practices

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (18 Courses)

Complete the following courses:

- [AGME1801](#) Outdoor Power Equipment (3 Credits)
- [AGME1812](#) Equipment Assembly, Operation, Adjustment and Reconditioning I (2 Credits)
- [AGME1813](#) Equipment Assembly, Operation, Adjustment and Reconditioning II (2 Credits)
- [AGME1821](#) Precision Measuring Tools (1 Credit)
- [AGME1822](#) Gas/Diesel Engine Repair I (3 Credits)
- [AGME1823](#) Engine Support Systems and Lab (3 Credits)
- [AGME1831](#) Tractor Power Trains (3 Credits)
- [AGME1861](#) Tractor Electrical Systems (3 Credits)
- [AGME1881](#) Parts Department Operation (1 Credit)
- [AGME1891](#) Hydraulic Theory (1 Credit)
- [AGME1923](#) Gas/Diesel Engine Repair II (4 Credits)
- [AGME1930](#) Ag Welding (2 Credits)
- [AGME2832](#) Hydraulic Assist/Hydrostatic Transmissions (2 Credits)
- [AGME2841](#) Air Conditioning (1 Credit)
- [AGME2852](#) Introduction to Diesel (1 Credit)
- [AGME2853](#) Diesel Injection (Pumps) (3 Credits)
- [AGME2863](#) Advanced Agricultural Electrical/Electronics (2 Credits)
- [AGME2892](#) Hydraulic Theory and Diagnosis (4 Credits)

### Technical Electives (5 Credits)

Select 5 credits from the following courses in consultation with advisor/faculty.

- [AGBS2015](#) Commercial Driver's License (1 Credit)
- [AGBS2995](#) Individualized Study/Special Problems (1 - 6 Credits)
- [AGME2882](#) Ag Tech Seminar (1 Credit)
- [AGME2945](#) Tractor/Equipment Repair I (3 Credits)
- [AGME2946](#) Tractor/Equipment Repair II (4 Credits)

### Internship (11 Credits)

Complete 11 credits:

- [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas. Select credits in consultation with advisor/faculty.

[AGME2947](#) Tractor/Equipment Diagnosis and Repair (4 Credits)  
[PLSC1205](#) Precision Agriculture (3 Credits)

## Agribusiness Service Technician, Diversified

A.A.S. Degree • 72 Credits

AAS 3130

### Degree Description

This degree provides an opportunity for study in the area of agricultural power and mechanization. The major areas of study include gasoline and diesel engine component repair including the support lubrication, cooling, air intake, exhaust and basic fuel systems. Other areas of emphasis are power trains (clutches and transmissions), DC electrical systems and monitors, hydraulics, and diesel fuel systems (nozzles and injection pumps). In addition, safety, air conditioning and outdoor power products complete the technical course offerings. The curriculum will provide both basic and advanced technical instruction. This degree includes a Liberal Arts & Sciences component of 15 credits.

### Degree Student Learning Outcomes

1. Perform assembly, repair, operation, and adjustment of machinery and power units
2. Conduct trouble shooting of agricultural power units and machinery
3. Diagnose and repair tractor systems and equipment
4. Perform parts department operations
5. Perform metal welding and fabrication
6. Perform work using appropriate safety practices

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (8 Courses)

Complete the following courses:

- [AGME1812](#) Equipment Assembly, Operation, Adjustment and Reconditioning I (2 Credits)
- [AGME1822](#) Gas/Diesel Engine Repair I (3 Credits)
- [AGME1823](#) Engine Support Systems and Lab (3 Credits)
- [AGME1831](#) Tractor Power Trains (3 Credits)
- [AGME1861](#) Tractor Electrical Systems (3 Credits)
- [AGME2841](#) Air Conditioning (1 Credit)
- [AGME2852](#) Introduction to Diesel (1 Credit)
- [AGME2892](#) Hydraulic Theory and Diagnosis (4 Credits)

### Technical Electives (26 Credits)

Select 26 credits from the following courses in consultation with advisor/faculty.

- [AGBS2015](#) Commercial Driver's License (1 Credit)
- [AGBS2995](#) Individualized Study/Special Problems (1 - 6 Credits)
- [AGME1801](#) Outdoor Power Equipment (3 Credits)
- [AGME1813](#) Equipment Assembly, Operation, Adjustment and Reconditioning II (2 Credits)
- [AGME1821](#) Precision Measuring Tools (1 Credit)
- [AGME1881](#) Parts Department Operation (1 Credit)
- [AGME1891](#) Hydraulic Theory (1 Credit)
- [AGME1923](#) Gas/Diesel Engine Repair II (4 Credits)
- [AGME1930](#) Ag Welding (2 Credits)
- [AGME2832](#) Hydraulic Assist/Hydrostatic Transmissions (2 Credits)
- [AGME2853](#) Diesel Injection (Pumps) (3 Credits)
- [AGME2863](#) Advanced Agricultural Electrical/Electronics (2 Credits)
- [AGME2882](#) Ag Tech Seminar (1 Credit)
- [AGME2945](#) Tractor/Equipment Repair I (3 Credits)
- [AGME2946](#) Tractor/Equipment Repair II (4 Credits)

### Internship (11 Credits)

Complete 11 credits:

- [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts & Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas in consultation with advisor/faculty.

[AGME2947](#) Tractor/Equipment Diagnosis and Repair (4 Credits)

[PLSC1205](#) Precision Agriculture (3 Credits)

[SGAG1000](#) Ag Orientation (1 Credit)

## Agribusiness Production

Diploma • 72 Credits

DIP 3153

### Degree Description

Emphasis Areas available include: Agronomy, Animal Science, Diversified

Program emphasis areas provide learners with an opportunity for study in the areas of plant and animal production. The crop production areas consist of selection, planning, management, harvesting, and marketing. Areas of soil science are also studied focusing on fertility, conservation, and tillage. The animal production study consists of areas in breeding, feeding, care, management, and marketing. In addition, courses in farm machinery, buildings and structures, farm management, farm accounting, farm business analysis, and farm business reorganization provide a broad-based program of study. Learners will be required to keep a complete farm record for analysis and interpretation. An on-the-farm internship will be required. The A.A.S. Degree includes 15 credits of Liberal Arts and Sciences and the Diploma includes up to 6 credits of Liberal Arts and Sciences respectively.

### Degree/Diploma Student Learning Outcomes

1. Prepare and assess a livestock management plan
2. Develop and assess a soil and crop management plan
3. Perform farm business operations
4. Utilize a comprehensive farm business plan
5. Demonstrate approved management practices used to select, cultivate and harvest agricultural crops
6. Demonstrate effective participation in an agribusiness team

### Admission Dates: Fall and Spring Semester

#### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

#### Required Technical Courses (14 Courses)

You must complete all of the following classes:

- [AGEC1100](#) Agricultural Economics (3 Credits)
- [AGEC1200](#) Principles of Farm Records (3 Credits)
- [AGEC2400](#) Marketing Principles (3 Credits)
- [AGEC2250](#) Farm Business Planning & Analysis (4 Credits)
- [AGEC2500](#) Agricultural Transfer and Law (2 Credits)
- [AGEC2450](#) Commodity Marketing Strategies (2 Credits)
- [AGRI1800](#) Employer/Employee Issues (2 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [MEAG1500](#) Facility Maintenance (3 Credits)
- [MEAG2200](#) Planning Farmstead Environments (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

#### Agribusiness Emphasis Areas (19 Credits)

Select at least 19 credits from one of the following Agribusiness emphasis areas.

Animal Science Emphasis: ANSC1105,1200,1205,1305, ANSC2100, SWPR1050,1200,1300,1500,2000, PLSC1105, AGEC2600

Agronomy Emphasis: PLSC1105,1200,1205,1400,2100,2700, MEAG1610, AGEC2600, AGBS2015

Diversified Emphasis: Select 19 credits from any of these departments: AGECE, AGBS, AGRI, ANSC, MEAG, PLSC or

#### Internship (11 Credits)

Complete 11 credits

[AGRI2780](#) Agribusiness Internship (1 - 9 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Required Liberal Arts and Sciences (1 Course)

Choose 1 course from MnTC Goal Area 1:

SWPR.

**Additional Required Liberal Arts and Sciences (1 Course)**

Choose 1 course from MnTC Goal Areas 2 through 10.

## Agribusiness Service and Management

Diploma • 72 Credits

DIP 3151

### Degree Description

Emphasis Areas available include: Agronomy, Animal Science, Diversified

Program emphasis areas are designed to prepare learners to sell and deliver services as employees of agribusiness firms in the crop and livestock related industries. Duties include performance of retail and office procedural tasks, preparation and implementation of marketing programs, sales and sales management, preparation of financial and business reports, delivery of products and services, and managing selected aspects of these businesses. The program includes technical agriculture courses in the areas of plant, soil, and animal science as well as agricultural industry equipment operation and maintenance. The courses in business include the subject areas of accounting, business procedures, interpersonal communication, financial/business management, marketing, selling, and computer operations. An 11 credit supervised occupational internship in an agribusiness firm is required. The A.A.S. Degree includes 15 credits of Liberal Arts and Sciences and the Diploma includes up to 6 credits of Liberal Arts and Sciences respectively.

### Degree/Diploma Student Learning Outcomes

1. Demonstrate effective participation on an agribusiness team
2. Maintain and safely operate industry equipment
3. Demonstrate financial management skills
4. Demonstrate promotion and selling of agricultural services and products
5. Develop and maintain records required for successful employment

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (15 Courses)

You must complete all of the following classes:

- [AGBS1100](#) Agricultural Selling Skills (3 Credits)
- [AGBS2015](#) Commercial Driver's License (1 Credit)
- [AGBS2150](#) Agribusiness Financial Management (4 Credits)
- [AGEC1100](#) Agricultural Economics (3 Credits)
- [AGEC2400](#) Marketing Principles (3 Credits)
- [AGEC2450](#) Commodity Marketing Strategies (2 Credits)
- [AGEC2500](#) Agricultural Transfer and Law (2 Credits)
- [AGRI1800](#) Employer/Employee Issues (2 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [ANSC1100](#) Livestock Production Principles (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)
- [MEAG1500](#) Facility Maintenance (3 Credits)
- [MEAG1700](#) Agricultural Industry Machinery Maintenance (3 Credits)

### Agribusiness Emphasis Areas (18 Credits)

Select at least 18 credits from one of the following Agribusiness emphasis areas.

Animal Science Emphasis: ANSC1105,1200,1205,1305  
ANSC2100, SWPR1050,1200,1300,1500,2000, PLSC1105,  
AGEC2600

Agronomy Emphasis: PLSC1105,1200,1205,1400,2100,2700,  
AGEC2600, AGBS2990,2995

### Internship (11 Credits)

Complete 11 credits

[AGRI2780](#) Agribusiness Internship (1 - 9 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (1 Course)

Choose 1 course from MnTC Goal Area 1:

Diversified Emphasis: Select 18 credits from any of these departments: AGECE, AGBS, AGRI, ANSC, MEAG, PLSC or SWPR.

**Additional Required Liberal Arts and Sciences (1 Course)**

Choose 1 course from MnTC Goal Areas 2 through 10.

## Agribusiness Service Technician Diploma • 72 Credits

DIP 3128

### Degree Description

The diploma is designed to prepare learners for entry level career opportunities in the diesel, farm equipment, and industrial mechanics fields. Learners will diagnose and repair engines, fuel systems, power trains, electrical systems, hydraulics, air conditioning, and related machinery. With additional training and experience many technicians become shop foreman, service managers or open their own business.

### Diploma Student Learning Outcomes

1. Perform assembly, repair, operation, and adjustment of machinery and power units
2. Conduct trouble shooting of agricultural power units and machinery
3. Diagnose and repair tractor systems and equipment
4. Perform parts department operations
5. Perform metal welding and fabrication
6. Perform work using appropriate safety practices

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (23 Courses)

Complete the following courses:

- [AGME1801](#) Outdoor Power Equipment (3 Credits)
- [AGME1812](#) Equipment Assembly, Operation, Adjustment and Reconditioning I (2 Credits)
- [AGME1813](#) Equipment Assembly, Operation, Adjustment and Reconditioning II (2 Credits)
- [AGME1821](#) Precision Measuring Tools (1 Credit)
- [AGME1822](#) Gas/Diesel Engine Repair I (3 Credits)
- [AGME1823](#) Engine Support Systems and Lab (3 Credits)
- [AGME1831](#) Tractor Power Trains (3 Credits)
- [AGME1861](#) Tractor Electrical Systems (3 Credits)
- [AGME1881](#) Parts Department Operation (1 Credit)
- [AGME1891](#) Hydraulic Theory (1 Credit)
- [AGME1923](#) Gas/Diesel Engine Repair II (4 Credits)
- [AGME1930](#) Ag Welding (2 Credits)
- [AGME2832](#) Hydraulic Assist/Hydrostatic Transmissions (2 Credits)
- [AGME2841](#) Air Conditioning (1 Credit)
- [AGME2852](#) Introduction to Diesel (1 Credit)
- [AGME2853](#) Diesel Injection (Pumps) (3 Credits)
- [AGME2863](#) Advanced Agricultural Electrical/Electronics (2 Credits)
- [AGME2882](#) Ag Tech Seminar (1 Credit)
- [AGME2892](#) Hydraulic Theory and Diagnosis (4 Credits)
- [AGME2945](#) Tractor/Equipment Repair I (3 Credits)
- [AGME2946](#) Tractor/Equipment Repair II (4 Credits)
- [AGME2947](#) Tractor/Equipment Diagnosis and Repair (4 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

### Elective Credits (1 Credit)

Complete 1 credit from courses offered in the following departments in consultation with faculty: AGBS, AGECE, AGRI, ANSC, MEAG, PLSC, SGAG, SWPR, OTEC, HLTH

### Internship (11 Credits)

Complete 11 credits:

- [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences (6 Credits)

Students must select 6 MNTC credits from 2 of the 10 MntC goal areas in consultation with advisor/faculty.

## Agribusiness Service Technician, Diversified Diploma • 72 Credits

DIP 3131

### Degree Description

The diploma is designed to prepare learners for career opportunities in the diesel, farm equipment, and industrial mechanics fields. Learners will diagnose and repair engines (diesel and gasoline), fuel systems, power trains, electrical systems, hydraulics, air conditioning, and related machinery. An 11 credit internship experience in a dealership or related firm is required.

### Diploma Student Learning Outcomes

1. Perform assembly, repair, operation, and adjustment of machinery and power units
2. Conduct trouble shooting of agricultural power units and machinery
3. Diagnose and repair tractor systems and equipment
4. Perform parts department operations
5. Perform metal welding and fabrication
6. Perform work using appropriate safety practices

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (9 Courses)

Complete the following courses:

- [AGME1812](#) Equipment Assembly, Operation, Adjustment and Reconditioning I (2 Credits)
- [AGME1822](#) Gas/Diesel Engine Repair I (3 Credits)
- [AGME1823](#) Engine Support Systems and Lab (3 Credits)
- [AGME1831](#) Tractor Power Trains (3 Credits)
- [AGME1861](#) Tractor Electrical Systems (3 Credits)
- [AGME2841](#) Air Conditioning (1 Credit)
- [AGME2852](#) Introduction to Diesel (1 Credit)
- [AGME2892](#) Hydraulic Theory and Diagnosis (4 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

### Technical Electives (34 Credits)

Complete 34 credits from the following courses:

- [AGBS2015](#) Commercial Driver's License (1 Credit)
- [AGBS2995](#) Individualized Study/Special Problems (1 - 6 Credits)
- [AGME1801](#) Outdoor Power Equipment (3 Credits)
- [AGME1813](#) Equipment Assembly, Operation, Adjustment and Reconditioning II (2 Credits)
- [AGME1821](#) Precision Measuring Tools (1 Credit)
- [AGME1881](#) Parts Department Operation (1 Credit)
- [AGME1891](#) Hydraulic Theory (1 Credit)
- [AGME1923](#) Gas/Diesel Engine Repair II (4 Credits)
- [AGME1930](#) Ag Welding (2 Credits)
- [AGME2832](#) Hydraulic Assist/Hydrostatic Transmissions (2 Credits)
- [AGME2853](#) Diesel Injection (Pumps) (3 Credits)
- [AGME2863](#) Advanced Agricultural Electrical/Electronics (2 Credits)
- [AGME2882](#) Ag Tech Seminar (1 Credit)
- [AGME2945](#) Tractor/Equipment Repair I (3 Credits)
- [AGME2946](#) Tractor/Equipment Repair II (4 Credits)
- [AGME2947](#) Tractor/Equipment Diagnosis and Repair (4 Credits)
- [AGR11800](#) Employer/Employee Issues (2 Credits)
- [PLSC1205](#) Precision Agriculture (3 Credits)

### Internship (11 Credits)

Complete 11 credits:

- [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences

Students must select 6 MNTC credits from 2 of the 10 MntC goal areas in consultation with advisor/faculty.

## Agribusiness Technician

Diploma • 37 Credits

DIP 3147

### Degree Description

The diploma is designed to prepare a learner for entry level career opportunities in the diesel, farm equipment, and industrial mechanics fields. Learners will diagnose and repair engines, fuel systems, power trains, electrical systems, hydraulics, air conditioning, and related machinery. With additional training and experience many technicians become shop foreman, service managers or open their own business. This diploma is designed for the learner who has prior training in the field or credit for life experience. A pretest or prior course work is required for admittance to this program.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (12 Courses)

Complete the following courses:

- [AGME2832](#) Hydraulic Assist/Hydrostatic Transmissions (2 Credits)
  - [AGME2841](#) Air Conditioning (1 Credit)
  - [AGME2852](#) Introduction to Diesel (1 Credit)
  - [AGME2853](#) Diesel Injection (Pumps) (3 Credits)
  - [AGME2863](#) Advanced Agricultural Electrical/Electronics (2 Credits)
  - [AGME2882](#) Ag Tech Seminar (1 Credit)
  - [AGME2892](#) Hydraulic Theory and Diagnosis (4 Credits)
  - [AGME2945](#) Tractor/Equipment Repair I (3 Credits)
  - [AGME2946](#) Tractor/Equipment Repair II (4 Credits)
  - [AGME2947](#) Tractor/Equipment Diagnosis and Repair (4 Credits)
  - [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)  
Or  
[OTEC1790](#) Keyboarding for College (2 Credits)

### Elective Credit (1 Credit)

Select one credit from courses in the following subjects: AGBS, AGEC, AGRI, ANSC, MEAG, PLSC, SGAG, SWPR, OTEC or HLTH. Courses must be selected in consultation with advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Agribusiness Technician's Aide

Diploma • 35 Credits

DIP 3146

---

### Degree Description

The diploma is designed to prepare learners for career opportunities in the diesel, farm equipment and industrial mechanics field. Students will prepare for entry level employment in a variety of settings doing lube services, detailing, and light mechanical repairs. With additional course work and experience technician aides will become service technicians.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [AGME1801](#) Outdoor Power Equipment (3 Credits)
- [AGME1812](#) Equipment Assembly, Operation, Adjustment and Reconditioning I (2 Credits)
- [AGME1813](#) Equipment Assembly, Operation, Adjustment and Reconditioning II (2 Credits)
- [AGME1821](#) Precision Measuring Tools (1 Credit)
- [AGME1822](#) Gas/Diesel Engine Repair I (3 Credits)
- [AGME1823](#) Engine Support Systems and Lab (3 Credits)
- [AGME1831](#) Tractor Power Trains (3 Credits)
- [AGME1861](#) Tractor Electrical Systems (3 Credits)
- [AGME1881](#) Parts Department Operation (1 Credit)
- [AGME1891](#) Hydraulic Theory (1 Credit)
- [AGME1923](#) Gas/Diesel Engine Repair II (4 Credits)
- [AGME1930](#) Ag Welding (2 Credits)
- [AGME2940](#) Agribusiness Service Technician Internship (11 Credits)
- [AGRI1800](#) Employer/Employee Issues (2 Credits)
- [HLTH1952](#) First Aid (1 Credit)
- [SGAG1000](#) Ag Orientation (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Ag Chemical Applicator Technician Certificate • 30 Credits

CERT3117

### Degree Description

The Ag Chemical Applicator Technician Program will provide hands-on training in all areas of agriculture, including crops, soil, fertilizers, equipment operation and maintenance and agribusiness sales and management. Participants will gain proficiency with ultra-modern, high-tech chemical application equipment. Extensive use will be made of community-based resources to help provide private employment experience for students.

### Certificate Core Competencies

1. Demonstrate effective participation on an agribusiness team
2. Perform maintenance and operate agribusiness industry equipment
3. Perform agribusiness industry computer functions
4. Promote and sell agricultural services and products
5. Develop and maintain agribusiness records systems
6. Demonstrate application of agricultural inputs

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness department. [See the Agribusiness department page for more details](#)

### Required Technical Courses (12 Courses)

Complete the following courses:

- [AGBS1100](#) Agricultural Selling Skills (3 Credits)
- [AGBS2015](#) Commercial Driver's License (1 Credit)
- [AGRI1800](#) Employer/Employee Issues (2 Credits)
- [AGRI2700](#) Agricultural Technology Seminar (2 Credits)
- [AGRI2780](#) Agribusiness Internship (1 - 9 Credits)
- [MEAG1700](#) Agricultural Industry Machinery Maintenance (3 Credits)
- [PLSC1100](#) Soils I (3 Credits)
- [PLSC1200](#) Soils II (3 Credits)
- [PLSC1205](#) Precision Agriculture (3 Credits)
- [PLSC1300](#) Agronomy I (2 Credits)
- [PLSC1400](#) Agronomy II (3 Credits)
- [SGAG1000](#) Ag Orientation (1 Credit)

### Elective Courses (Suggested)

These courses are not required but are suggested as courses which may be beneficial to you in this career field. You will graduate from this program even if you do not complete these courses.

- [AGBS2990](#) International Field Study (3 Credits)
- [AGBS2995](#) Individualized Study/Special Problems (1 - 6 Credits)
- [AGEC1100](#) Agricultural Economics (3 Credits)
- [PLSC1105](#) Forages and Pasture Management (2 Credits)
- [PLSC2100](#) Agronomy Lab (2 Credits)
- [PLSC2700](#) Advanced Agronomy (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Professional Swine Manager Certificate • 18 Credits

CERT3100

---

### Degree Description

The Professional Swine Manager Certificate is designed to provide professionals in the swine industry with management skills and competencies that are required to meet animal care and management considerations for safe humane food production.

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness Production department. [See the Agribusiness Production department page for more details](#)

### Required Technical Courses (8 Courses)

Complete all of the following courses:

- [AGRI1800](#) Employer/Employee Relations (2 Credits)
- [AGRI2780](#) Agribusiness Internship (1 - 9 Credits)
- [MEAG1510](#) Facility Operations Maintenance (3 Credits)
- [SWPR1000](#) Introduction to U. S. Pork Production (2 Credits)
- [SWPR1050](#) Swine Artificial Insemination (1 Credit)
- [SWPR1200](#) Swine Breeding Stock Management (3 Credits)
- [SWPR1300](#) Nursery Finish Management (3 Credits)
- [SWPR2000](#) Swine Records and Analysis (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Professional Swine Manager Certificate • 18 Credits

CERT3100

---

### Degree Description

The Professional Swine Manager Certificate is designed to provide professionals in the swine industry with management skills and competencies that are required to meet animal care and management considerations for safe humane food production.

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Agribusiness Production department. [See the Agribusiness Production department page for more details](#)

### Required Technical Courses (8 Courses)

Complete all of the following courses:

- [AGRI1800](#) Employer/Employee Relations (2 Credits)
- [AGRI2780](#) Agribusiness Internship (1 - 9 Credits)
- [MEAG1510](#) Facility Operations Maintenance (3 Credits)
- [SWPR1000](#) Introduction to U. S. Pork Production (2 Credits)
- [SWPR1050](#) Swine Artificial Insemination (1 Credit)
- [SWPR1200](#) Swine Breeding Stock Management (3 Credits)
- [SWPR1300](#) Nursery Finish Management (3 Credits)
- [SWPR2000](#) Swine Records and Analysis (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Architectural Drafting and Design

A.A.S. Degree • 60 Credits

AAS 3496

### Degree Description

This program prepares students for application of basic technical skills in support of Architects engaged in designing/developing commercial buildings.

A laptop is required for this program. Please consult faculty before purchase.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Architectural Drafting and Design department. [See the Architectural Drafting and Design department page for more details](#)

### Required Technical Courses (16 Courses)

NOTE: Due to the highly responsible nature of the work performed, no grade lower than a C in any required course with a BDET prefix will be counted towards graduation.

You must complete all of the following classes:

- [BDET1100](#) Introduction to Building Design and Energy Technology (1 Credit)
- [BDET1110](#) Studio I (4 Credits)
- [BDET1120](#) Estimating Concepts (2 Credits)
- [BDET1130](#) Materials and Methods (3 Credits)
- [BDET1150](#) AutoCAD (2 Credits)
- [BDET1210](#) Studio II (4 Credits)
- [BDET1220](#) Building Analyst (3 Credits)
- [BDET1240](#) Construction Documents (2 Credits)
- [BDET1250](#) Revit (2 Credits)
- [BDET1260](#) Special Topics in Environmental Design (1 Credit)
- [BDET2110](#) Studio III (4 Credits)
- [BDET2120](#) Statics and Strengths of Materials (3 Credits)
- [BDET2130](#) MEP Systems (Mechanical, Electrical and Plumbing) (3 Credits)
- [BDET2140](#) Building Codes (2 Credits)
- [BDET2210](#) Studio IV (6 Credits)
- [BDET1320](#) Internship (3 Credits)

### Liberal Arts and Sciences - Electives (4 Credits)

Select an additional 4 credits from MnTC goals 2,3,5,6,7,8,9 or 10.

### Required Liberal Arts & Sciences (3 Courses)

To complete an AAS degree, students must complete 15 MnTC credits from 3 of the 10 MnTC goal areas. The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [MATH120](#) College Algebra (4 Credits)
- [MATH125](#) Trigonometry (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Architectural Drafting and Design Diploma • 32 Credits

DIP 3498

---

### Degree Description

This program prepares students for application of basic technical skills in support of Architects engaged in designing/developing commercial buildings.

A laptop is required for this program. Please consult faculty before purchase.

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the department. [See the department page for more details](#)

### Required Technical Courses (10 Courses)

NOTE: Due to the highly responsible nature of the work performed, no grade lower than a C in any required course with a BDET prefix will be counted towards graduation.

You must complete all of the following classes:

- [BDET1100](#) Introduction to Building Design and Energy Technology (1 Credit)
- [BDET1110](#) Studio I (4 Credits)
- [BDET1120](#) Estimating Concepts (2 Credits)
- [BDET1130](#) Materials and Methods (3 Credits)
- [BDET1150](#) AutoCAD (2 Credits)
- [BDET1210](#) Studio II (4 Credits)
- [BDET1220](#) Building Analyst (3 Credits)
- [BDET1240](#) Construction Documents (2 Credits)
- [BDET1250](#) Revit (2 Credits)
- [BDET1260](#) Special Topics in Environmental Design (1 Credit)

### Required Liberal Arts and Sciences (8 Credits)

Please complete both of the following courses:

- [ENGL100](#) Composition (4 Credits)
- [MATH120](#) College Algebra (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Auto Body and Collision Technology

A.A.S. Degree • 72 Credits

AAS 3415

### Degree Description

The A.A.S. Degree in Auto Body and Collision Technology provides students with the opportunity to develop technical skills and to broaden personal horizons through the requirement of 15 Liberal Arts and Sciences credits. Each student is required to have tools relative to the trade area.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Auto Body and Collision Technology department. [See the Auto Body and Collision Technology department page for more details](#)

### Required Technical Courses (18 Courses)

Select the following courses:

- [ABCT1805](#) Auto Body Collision Technology Fundamentals (2 Credits)
  - [ABCT1801](#) Auto Body Lab I (4 Credits)
  - [ABCT1810](#) Sheet Metal I (3 Credits)
  - [ABCT1820](#) Priming and Refinish System Preparation (3 Credits)
  - [ABCT1860](#) Auto Body Welding (3 Credits)
  - [ABCT1802](#) Auto Body Lab II (4 Credits)
  - [ABCT1850](#) Trim, Hardware and Glass (3 Credits)
  - [ABCT1870](#) Refinishing (3 Credits)
  - [ABCT1880](#) Sheet Metal II (3 Credits)
  - [ABCT2800](#) Damage Appraisal and Shop Management (3 Credits)
  - [ABCT2803](#) Auto Body Lab III (4 Credits)
  - [ABCT1840](#) Auto Collision Mechanical I (3 Credits)
  - [ABCT2810](#) Appearance Matching (3 Credits)
  - [ABCT2820](#) Composites (2 Credits)
  - [ABCT2830](#) Measuring and Pulling Systems (3 Credits)
  - [ABCT2850](#) Structural Repair (3 Credits)
  - [ABCT2870](#) Auto Collision Mechanical II (3 Credits)
- [ABCT2804](#) Auto Body Lab IV (4 Credits)
- Or
- [ABCT2910](#) Occupational Internship (1 - 9 Credits)

### Technical Elective Credits (1 Credit)

Courses must be selected in consultation with advisor/faculty. Choose from the following courses or see advisor/faculty for additional offerings.

- [ABCT2910](#) Occupational Internship (1 - 9 Credits)
- [ABCT2920](#) Special Problems (1 - 6 Credits)
- [ABCT2805](#) Auto Body and Collision Air Conditioning (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts & Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC goal areas. Courses must be selected in consultation with advisor/faculty.

## Auto Body and Collision Technology Diploma • 64 Credits

DIP 3414

---

### Degree Description

The Auto Body and Collision Technology diploma is designed to meet the needs of students who wish to concentrate on technical skills and 6 Liberal Arts and Sciences credits. Each student is required to have tools relative to the trade area.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Auto Body and Collision Technology department. [See the Auto Body and Collision Technology department page for more details](#)

### Required Technical Courses (19 Courses)

Complete all of the following courses:

- [ABCT1805](#) Auto Body Collision Technology Fundamentals (2 Credits)
- [ABCT1801](#) Auto Body Lab I (4 Credits)
- [ABCT1810](#) Sheet Metal I (3 Credits)
- [ABCT1820](#) Priming and Refinish System Preparation (3 Credits)
- [ABCT1860](#) Auto Body Welding (3 Credits)
- [ABCT1802](#) Auto Body Lab II (4 Credits)
- [ABCT1850](#) Trim, Hardware and Glass (3 Credits)
- [ABCT1870](#) Refinishing (3 Credits)
- [ABCT1880](#) Sheet Metal II (3 Credits)
- [ABCT2800](#) Damage Appraisal and Shop Management (3 Credits)
- [ABCT2803](#) Auto Body Lab III (4 Credits)
- [ABCT1840](#) Auto Collision Mechanical I (3 Credits)
- [ABCT2810](#) Appearance Matching (3 Credits)
- [ABCT2820](#) Composites (2 Credits)
- [ABCT2830](#) Measuring and Pulling Systems (3 Credits)
- [ABCT2805](#) Auto Body and Collision Air Conditioning (2 Credits)
- [ABCT2850](#) Structural Repair (3 Credits)
- [ABCT2870](#) Auto Collision Mechanical II (3 Credits)

[ABCT2804](#) Auto Body Lab IV (4 Credits)

Or

[ABCT2910](#) Occupational Internship (1 - 9 Credits)

### Elective Courses (Suggested)

These courses are not required but are suggested as courses which may be beneficial to you in this career field. You will graduate from this program even if you do not complete these courses.

- [ABCT2900](#) Auto Body Lab (1 - 4 Credits)
- [ABCT2910](#) Occupational Internship (1 - 9 Credits)
- [ABCT2920](#) Special Problems (1 - 6 Credits)

### Required Liberal Arts and Sciences (6 Credits)

To complete the diploma, students must complete 6 MNTC credits from 2 of the 10 MNTC goal areas. Courses must be approved by advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Automotive Service

A.A.S. Degree • 72 Credits

AAS 3417

### Degree Description

Learners graduating with an A.A.S. degree in Automotive Service receive intense training and experience in the diagnosis, repair and service of contemporary vehicles.

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Automotive Service department. [See the Automotive Service department page for more details](#)

### Required Technical Courses (24 Courses)

Complete all of the following courses:

- [AST 1112](#) Introduction to Auto Service (2 Credits)
- [AST 1121](#) Service Management (1 Credit)
- [AST 1212](#) Basic Electrical (2 Credits)
- [AST 1222](#) Advanced Electrical/Electronics (2 Credits)
- [AST 1233](#) Starting and Charging Systems (3 Credits)
- [AST 1311](#) Engine Diagnosis (1 Credit)
- [AST 1323](#) Lower Engine Service (3 Credits)
- [AST 1332](#) Upper Engine Service (2 Credits)
- [AST 1341](#) Engine Lab (1 Credit)
- [AST 1412](#) Clutch & Drive Line (2 Credits)
- [AST 1423](#) Manual Transmission/Transaxle & 4X4 (3 Credits)
- [AST 1513](#) Suspension/Steering & Wheel Alignment (3 Credits)
- [AST 1613](#) Brakes (3 Credits)
- [AST 1622](#) Advanced Brakes (2 Credits)
- [AST 1712](#) Basic Tune-up (Non-computer) (2 Credits)
- [AST 2432](#) Rear Axle/Differential (2 Credits)
- [AST 2442](#) Automatic Transmission I (2 Credits)
- [AST 2452](#) Automatic Transmission II (2 Credits)
- [AST 2462](#) Automatic Transmission III (2 Credits)
- [AST 2723](#) Fuel Systems I (3 Credits)
- [AST 2733](#) Introduction to Automotive Computers (3 Credits)
- [AST 2743](#) Fuel Systems II (3 Credits)
- [AST 2752](#) Engine Performance & Drivability (2 Credits)
- [AST 2812](#) Basic Air Conditioning (2 Credits)

### Elective Technical Courses (2 Credits)

Select at least two credits from the following:

- [AST 2951](#) Individualized Study (1 - 8 Credits)
- [AST 2961](#) Cooperative Occupational Experience (1 - 8 Credits)
- [AST 2822](#) Advanced Heating and Air Conditioning (2 Credits)

### Auto Lab (4 Credits)

NOTE: Qualified sophomores may substitute COE for two credits of Auto Lab. Choose all four of the following courses:

- [AST 2911](#) Auto Lab I (1 Credit)
- [AST 2921](#) Auto Lab II (1 Credit)
- [AST 2931](#) Auto Lab III (1 Credit)
- [AST 2941](#) Auto Lab IV (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC goal areas.

## Automotive Service Diploma • 64 Credits

DIP 3416

### Degree Description

Learners graduating with a diploma in Automotive Service receive intense training and experience in the diagnosis, repair and service of contemporary vehicles.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Automotive Service department. [See the Automotive Service department page for more details](#)

### Required Technical Courses (28 Courses)

Complete all of the following courses: NOTE: For qualified sophomores, COE may be substituted for up to 2 credits of Auto Lab.

- [AST 1112](#) Introduction to Auto Service (2 Credits)
- [AST 1121](#) Service Management (1 Credit)
- [AST 1212](#) Basic Electrical (2 Credits)
- [AST 1222](#) Advanced Electrical/Electronics (2 Credits)
- [AST 1233](#) Starting and Charging Systems (3 Credits)
- [AST 1311](#) Engine Diagnosis (1 Credit)
- [AST 1323](#) Lower Engine Service (3 Credits)
- [AST 1332](#) Upper Engine Service (2 Credits)
- [AST 1341](#) Engine Lab (1 Credit)
- [AST 1412](#) Clutch & Drive Line (2 Credits)
- [AST 1423](#) Manual Transmission/Transaxle & 4X4 (3 Credits)
- [AST 1513](#) Suspension/Steering & Wheel Alignment (3 Credits)
- [AST 1613](#) Brakes (3 Credits)
- [AST 1622](#) Advanced Brakes (2 Credits)
- [AST 1712](#) Basic Tune-up (Non-computer) (2 Credits)
- [AST 2432](#) Rear Axle/Differential (2 Credits)
- [AST 2442](#) Automatic Transmission I (2 Credits)
- [AST 2452](#) Automatic Transmission II (2 Credits)
- [AST 2462](#) Automatic Transmission III (2 Credits)
- [AST 2723](#) Fuel Systems I (3 Credits)
- [AST 2733](#) Introduction to Automotive Computers (3 Credits)
- [AST 2743](#) Fuel Systems II (3 Credits)
- [AST 2752](#) Engine Performance & Drivability (2 Credits)
- [AST 2812](#) Basic Air Conditioning (2 Credits)
- [AST 2911](#) Auto Lab I (1 Credit)
- [AST 2921](#) Auto Lab II (1 Credit)
- [AST 2931](#) Auto Lab III (1 Credit)
- [AST 2941](#) Auto Lab IV (1 Credit)

### Required Liberal Arts and Sciences (6 Credits)

Complete 6 MNTC credits from MNTC goals 1-10.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Technical Electives (1 Credit)

Complete 1 credit from the following courses:

- [AST 1622](#) Advanced Brakes (2 Credits)
- [AST 2822](#) Advanced Heating and Air Conditioning (2 Credits)
- [AST 2951](#) Individualized Study (1 - 8 Credits)
- [AST 2961](#) Cooperative Occupational Experience (1 - 8 Credits)

## Biology

A.S. Degree • 60 Credits

AS 3513/AS 2513

### Degree Description

The Biology A.S. degree at South Central College was developed to provide learners with the first two years of a broad based education in Biology and its supporting sciences. It is specifically designed to prepare learners to transfer into the junior year of a Biology major at a four year college. This program articulates with the Biology program at Minnesota State University, Mankato.

**Applications to this program are no longer being accepted.**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Biology department. [See the Biology department page for more details](#)

### Required Courses (5 Courses)

Complete the following courses:

- [BIOL115](#) General Biology I (4 Credits)
- [BIOL116](#) General Biology II (4 Credits)
- [BIOL211](#) Genetics (4 Credits)
- [BIOL250](#) Biology Capstone (2 Credits)
- [CHEM120](#) Principles of Chemistry I (5 Credits)

### Additional Required Liberal Arts and Sciences (5 Courses)

Choose the following courses:

- [PHYS211](#) Principles in Physics I (4 Credits)
- [CHEM121](#) Principles of Chemistry II (5 Credits)
- [ENGL100](#) Composition (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)

### Biology Electives (11 Credits)

Choose 11 credits from the following courses:

- [BIOL220](#) Human Anatomy (4 Credits)
- [BIOL230](#) Human Physiology (4 Credits)
- [BIOL270](#) Microbiology (4 Credits)
- [CHEM220](#) Organic Chemistry I (5 Credits)
- [CHEM221](#) Organic Chemistry II (5 Credits)

### Liberal Arts and Sciences Electives

To complete an AS degree in Biology, students must complete 30 MNTC credits from 6 of the 10 MNTC Goal Areas. Courses should be selected in consultation with advisor/faculty.

Select an additional 14 credits to fulfill three other MNTC goal areas (MNTC Goals 2,4,5,6,7,8,9,10).

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Business Management

A.A.S. Degree • 60 Credits

AAS 2280/AAS 3280

### Degree Description

The Business Management Program is designed to provide learners with a broad background in general business concepts. The program focuses on the skills and knowledge needed in the areas of accounting, marketing and management, computer technology and office administration. The program increases opportunities for learners to be successful in their current job as well as assisting them in their career advancement endeavors. The program also includes a Liberal Arts and Sciences component that helps learners develop a well-rounded view of the world in which they live and work.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Business Management department. [See the Business Management department page for more details](#)

### Required Technical Courses (14 Courses)

Complete all of the following courses:

- [ACCT1800](#) Business Law (3 Credits)
- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [ACCT1834](#) Computerized Accounting I (3 Credits)
- [ACCT2827](#) Principles of Finance (3 Credits)
- [MGT 2820](#) Introduction to Management Information Systems (3 Credits)
- [MKT 1800](#) Introduction to Sales (3 Credits)
- [MKT 1810](#) Principles of Marketing (3 Credits)
- [MKT 1820](#) Introduction to Business (3 Credits)
- [MKT 1900](#) Principles of Management (3 Credits)
- [MKT 1910](#) Entrepreneurship (3 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
- [OTEC1820](#) Business English (3 Credits)
- [OTEC2820](#) Business Communications (3 Credits)

### Required Liberal Arts & Sciences (3 Courses)

To complete an AAS Degree, students must complete 16 MNTC credits from 3 of the 10 MNTC Goal areas. Courses must be selected in consultation with advisor/faculty.

Select 3 of the following courses:

- [ENGL100](#) Composition (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [ECON110](#) Principles of Macroeconomics (3 Credits)
- Or
- [ECON120](#) Principles of Microeconomics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Liberal Arts and Science Credits

Select six credits in MNTC Goals 1 - 10 At least one course must be outside of MNTC goals 1 and 5. Select courses in consultation with advisor/ faculty.

## Carpentry

A.A.S. Degree • 60 Credits

AAS 2452

---

### Degree Description

The Carpentry program prepares students for a career in residential and commercial carpentry. The program coursework includes a mix of technical and general education, theory and hands-on learning experiences starting with the basics in tool usage, construction safety and print reading and progressing to advanced applications of residential and commercial carpentry skills and knowledge.

### Admission Dates: Fall Semester

### Offered on the Faribault Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Carpentry department. [See the Carpentry department page for more details](#)

### Required Technical Courses (15 Courses)

Complete the following courses:

- [CARP1110](#) Carpentry Tools and Safety (2 Credits)
- [CARP1121](#) Print Reading (2 Credits)
- [CARP1123](#) Residential Principles I (5 Credits)
- [CARP1130](#) Residential Principles II (5 Credits)
- [CARP1226](#) Stairway Technology (2 Credits)
- [CARP1227](#) Interior Finish I (2 Credits)
- [CARP1228](#) Interior Finish II (4 Credits)
- [CARP1229](#) Exterior Finish (2 Credits)
- [CARP1232](#) Carpentry Lab (2 Credits)
- [CARP2100](#) Foundations and Footings (3 Credits)
- [CARP2101](#) Commercial Construction Concepts (2 Credits)
- [CARP2102](#) Construction Site Experience I (4 Credits)
- [CARP2103](#) Residential Roof Framing (2 Credits)
- [CARP2202](#) Construction Site Experience II (5 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

### Required MATH Course (1 Course)

Choose one MATH courses approved in MnTC Goal 3:

### Required Liberal Arts and Sciences (1 Course)

To complete an AAS Degree, students must complete 15 MnTC credits from 3 of the 10 MnTC goal areas. Choose one of the following COMM courses:

- [COMM100](#) Introduction to Human Communication (3 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [COMM120](#) Small Group Communication (3 Credits)
- [COMM130](#) Intercultural Communication (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Additional Liberal Arts and Sciences

Select 8 or 9 additional MnTC credits. At least one Course must be outside of MnTC Goals 1 and 4. Courses must be chosen in consultation with your advisor

## Carpentry

### Diploma • 48 Credits

DIP 2451

---

#### Degree Description

The Carpentry program prepares students for a career in residential and commercial carpentry. The program coursework includes a mix of technical and general education, theory and hands-on learning experiences starting with the basics in tool usage, construction safety and print reading and progressing to advanced applications of residential and commercial carpentry skills and knowledge.

#### Admission Dates: Fall Semester

#### Offered on the Faribault Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Carpentry department. [See the Carpentry department page for more details](#)

#### Required Technical Courses (15 Courses)

You must complete all of the following classes:

- [CARP1110](#) Carpentry Tools and Safety (2 Credits)
- [CARP1121](#) Print Reading (2 Credits)
- [CARP1123](#) Residential Principles I (5 Credits)
- [CARP1130](#) Residential Principles II (5 Credits)
- [CARP1226](#) Stairway Technology (2 Credits)
- [CARP1227](#) Interior Finish I (2 Credits)
- [CARP1228](#) Interior Finish II (4 Credits)
- [CARP1229](#) Exterior Finish (2 Credits)
- [CARP1232](#) Carpentry Lab (2 Credits)
- [CARP2000](#) Carpentry Internship (2 Credits)
- [CARP2100](#) Foundations and Footings (3 Credits)
- [CARP2101](#) Commercial Construction Concepts (2 Credits)
- [CARP2102](#) Construction Site Experience I (4 Credits)
- [CARP2103](#) Residential Roof Framing (2 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

#### Required Liberal Arts and Sciences (1 Course)

Choose 1 course from the following list:

- [COMM100](#) Introduction to Human Communication (3 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [COMM120](#) Small Group Communication (3 Credits)
- [COMM130](#) Intercultural Communication (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Additional Liberal Arts and Sciences (3 Credits)

Select 3 more credits from MnTC goal areas 2-10. Course must be chosen in consultation with your Advisor.

## Carpentry

Certificate • 17 Credits

CERT2453

---

### Degree Description

The Carpentry program prepares students for a career in residential and commercial carpentry. The program coursework includes a mix of technical and general education, theory and hands-on learning experiences starting with the basics in tool usage, construction safety and print reading and progressing to advanced applications of residential and commercial carpentry skills and knowledge.

### Admission Dates: Fall Semester

### Offered on the Faribault Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Carpentry department. [See the Carpentry department page for more details](#)

### Required Technical Courses (5 Courses)

Complete the following courses:

- [CARP1110](#) Carpentry Tools and Safety (2 Credits)
- [CARP1121](#) Print Reading (2 Credits)
- [CARP1123](#) Residential Principles I (5 Credits)
- [CARP1130](#) Residential Principles II (5 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Child Development

A.S. Degree • 60 Credits

AS 3510

### Degree Description

The Child Development program is designed to establish foundations in early childhood education, improve the quality of early childhood services, and increase professionalism in the field. Students will learn skills, such as: guidance techniques, health and safety, cultural sensitivity, curriculum planning, enhancing literacy, and interpersonal communication.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

### Required Technical Courses (11 Courses)

Complete the following courses:

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1260](#) Observation and Assessment 1 (1 Credit)
- [CDEV1270](#) Learning Environment & Curriculum (3 Credits)
- [CDEV1310](#) Infant-Toddler Development and Learning Experiences (3 Credits)
- [CDEV2210](#) Observation and Assessment 2 (2 Credits)
- [CDEV2510](#) Internship 1 (3 Credits)
- [CDEV2310](#) Children with Differing Abilities (3 Credits)
- [CDEV2530](#) Curriculum Planning (3 Credits)
- [CDEV2560](#) Language and Literacy Development (3 Credits)

### Required Liberal Arts & Sciences (3 Courses)

To complete the Child Development AS Degree, students must complete 30 MNTC credits from 6 of the 10 MNTC Goal areas. The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [MATH120](#) College Algebra (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences Electives

Select an additional 19 credits to fulfill four other MNTC Goal Areas (MNTC Goals 2,3,5,6,7,8,9,10).

## Administration of Child Care Programs

A.A.S. Degree • 60 Credits

AAS 2512/AAS 3512

### Degree Description

A manager of an early childhood or afterschool program has complex responsibilities that require a wide range of knowledge and skills. The Administration of Child Care Programs degree is designed to build students' knowledge and abilities to adequately and effectively evaluate the qualifications and performance of employees, develop sound personnel practices, oversee the purchase, care and maintenance of equipment, develop and evaluate sound curricula, build and maintain professional relationships with parents, staff and colleagues, and respond sensitively to the diverse needs of children, their parents, and staff. The skills obtained in this degree will prepare students for career opportunities such as a Director, Assistant Director, Site Coordinator, Early Childhood Teacher or Paraprofessional.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

### Required Technical Courses (18 Courses)

Complete the following courses:

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1230](#) Guiding Children's Behavior (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1260](#) Observation and Assessment 1 (1 Credit)
- [CDEV1270](#) Learning Environment & Curriculum (3 Credits)
- [CDEV1310](#) Infant-Toddler Development and Learning Experiences (3 Credits)
- [CDEV1312](#) Preschool Development and Learning Experiences (3 Credits)
- [CDEV2210](#) Observation and Assessment 2 (2 Credits)
- [CDEV2310](#) Children with Differing Abilities (3 Credits)
- [CDEV2510](#) Internship 1 (3 Credits)
- [CDEV2520](#) Children with Challenging Behaviors (3 Credits)
- [MKT 1900](#) Principles of Management (3 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
  
- [ACCT1814](#) Payroll Accounting (3 Credits)
- Or
- [ACCT1810](#) Financial Accounting (4 Credits)
  
- [CDEV2940](#) Managing Multiple Sites (1 Credit)
- [CDEV2990](#) Practicum Project (1 Credit)
  
- [HLTH1950](#) CPR (1 Credit)
- Or
- [HLTH1952](#) First Aid (1 Credit)
- Or
- [HLTH1954](#) Safety (1 Credit)

### Liberal Arts and Sciences - MNTC Goal 5 (1 Course)

Select one SOC or PSYC course from MNTC Goal 5.

### Liberal Arts and Sciences - MNTC Goal 1 (1 Course)

Select one ENGL or COMM course from MNTC Goal 1.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Additional Liberal Arts and Sciences (9-11 Credits)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC goal areas. At least one course must be from outside MNTC Goal Areas 1 and 5.

## Child Development

A.A.S. Degree • 60 Credits

AAS 2507/AAS 3507

### Degree Description

Education for early childhood licensure is provided by South Central College according to the Minnesota Department of Human Services requirements. Individuals will be prepared for careers in a variety of early childhood and educational settings. Graduates may pursue positions such as early childhood teachers or assistants, or as paraprofessionals within a school system. Graduates receiving an A.A.S. Degree in Child Development may transfer the degree to Metropolitan State University to pursue a B.A.S. Degree in the Early Childhood Studies, Psychology Department. This articulation agreement may be revised when program changes are made in the B.A.S. Degree in the Early Childhood Studies, Psychology Department at Metropolitan State University.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1230](#) Guiding Children's Behavior (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1260](#) Observation and Assessment 1 (1 Credit)
- [CDEV1270](#) Learning Environment & Curriculum (3 Credits)
- [CDEV1310](#) Infant-Toddler Development and Learning Experiences (3 Credits)
- [CDEV1312](#) Preschool Development and Learning Experiences (3 Credits)
- [CDEV2210](#) Observation and Assessment 2 (2 Credits)
- [CDEV2510](#) Internship 1 (3 Credits)
- [CDEV2310](#) Children with Differing Abilities (3 Credits)
- [CDEV2520](#) Children with Challenging Behaviors (3 Credits)
- [CDEV2530](#) Curriculum Planning (3 Credits)
- Or
- [CDEV1340](#) Planning and Implementing Curriculum (4 Credits)
- [CDEV2550](#) Cognitive Development (3 Credits)
- [CDEV2560](#) Language and Literacy Development (3 Credits)
- [CDEV2590](#) Social-Emotional Development and Learning (3 Credits)

### Liberal Arts and Sciences - Communication (1 Course)

Select at least one ENGL or COMM course from MNTC Goal Area 1.

### Liberal Arts and Sciences - Sociology or Psychology (1 Course)

Select at least one course from MNTC Goal Area 5 in PSYC or SOC.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts & Sciences (7 - 9 Credits)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC goal areas.

## Family Services Specialist

A.A.S. Degree • 60 Credits

AAS 2515 AAS 3515

### Degree Description

This award will prepare individuals for careers in a variety of family and child services settings. Students will learn skills such as positive behavioral interventions, health and safety, cultural sensitivity, family dynamics, record keeping and interpersonal communication.

The Family Service Specialist program is designed to establish a foundation in early childhood education, improve the quality of early childhood services, and prepares learners for positions in several areas in the health, human services, and education fields with children, adolescents, adults, and senior citizens. Those who may be interested in Social Work, Sociology, Psychology, Home Visitor for children and families or other health related areas may want to consider the Family Service Specialist program as a well-rounded educational base to support further development.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Community Social Service department. [See the Community Social Service department page for more details](#)

### Required Technical Courses (13 Courses)

Complete the following courses:

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1310](#) Infant-Toddler Development and Learning Experiences (3 Credits)
- [CDEV1312](#) Preschool Development and Learning Experiences (3 Credits)
- [CDEV2310](#) Children with Differing Abilities (3 Credits)
- [CDEV2510](#) Internship (3 Credits)
- [CDEV2590](#) Social-Emotional Development and Learning (3 Credits)
- [CSS 1801](#) Direct Service Professionalism (3 Credits)
- [CSS 1811](#) Facilitating Positive Behaviors (4 Credits)
- [CSS 1902](#) Physical Developmental Supports II (3 Credits)
- [CSS 1911](#) Community Social Service Internship Seminar (1 Credit)
- [CSS 1913](#) Supportive Interventions (4 Credits)

### Liberal Arts and Sciences Electives

Select an additional 8 credits of Liberal Arts and Sciences in consultation with your Advisor.

### Required Liberal Arts and Sciences (4 Courses)

To complete an AAS Degree, students must complete 21 credits from 3 of the 10 MnTC goal areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [SOWK100](#) Introduction to Social Work (3 Credits)
- [SOWK105](#) Social Welfare Services (3 Credits)
- [SOC 201](#) Marriage and Family (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Child Development Diploma • 33 Credits

DIP 2506/DIP 3506

---

### Degree Description

The Child Development program is designed to establish foundations in early childhood education, improve the quality of early childhood services, and increase professionalism in the field. Students will learn skills, such as; guidance techniques, health and safety, cultural sensitivity, curriculum planning, enhancing literacy, and interpersonal communication.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

### Required Technical Courses (10 Courses)

Complete the following courses:

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1230](#) Guiding Children's Behavior (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1260](#) Observation and Assessment 1 (1 Credit)
- [CDEV1270](#) Learning Environment & Curriculum (3 Credits)
- [CDEV1310](#) Infant-Toddler Development and Learning Experiences (3 Credits)
- [CDEV1312](#) Preschool Development and Learning Experiences (3 Credits)
- [CDEV2210](#) Observation and Assessment 2 (2 Credits)
- [CDEV2510](#) Internship 1 (3 Credits)

### Required Liberal Arts & Sciences (6 Credits)

Students must complete 6 MnTC credits from courses in MnTC goal areas 1-10. Courses must be selected consultation with advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administration of Child Care Programs Certificate • 11 Credits

CERT2511/CERT3511

---

### Degree Description

A manager of an early childhood or afterschool program has complex responsibilities that require a wide range of knowledge and skills. The Administration of Child Care Programs advanced certificate is designed to build students knowledge and abilities to adequately and effectively evaluate the qualifications and performance of employees, develop sound personnel practices, oversee the purchase, care and maintenance of equipment, develop and evaluate sound curricula, build and maintain professional relationships with parents, staff and colleagues, and respond sensitively to the diverse needs of children, their parents, and staff. To be enrolled in the Advanced Certificate students must have 17 credits in Child Development Careers, a related field, or advisor approval.

*A National Association for the Education of Young Children (NAEYC) Approved Director's Credential.*

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

### Required Technical Courses (5 Courses)

[MKT 1900](#) Principles of Management (3 Credits)

[MKT 1930](#) Human Resource Management (3 Credits)

[ACCT1814](#) Payroll Accounting (3 Credits)

Or

[ACCT1810](#) Financial Accounting (4 Credits)

[CDEV2940](#) Managing Multiple Sites (1 Credit)

[CDEV2990](#) Practicum Project (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## 2015-2016 PROGRAMS OF STUDY

### **Child Development** Certificate • 16 Credits

CERT2505/CERT3508

---

#### Degree Description

The Child Development program is designed to establish foundations in early childhood education, improve the quality of early childhood services, and increase professionalism in the field. Students will learn skills, such as; guidance techniques, health and safety, cultural sensitivity, curriculum planning, enhancing literacy, and interpersonal communication.

#### **Admission Dates: Fall and Spring Semester**

#### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Child Development Careers department. [See the Child Development Careers department page for more details](#)

#### **Required Technical Courses (6 Courses)**

Choose the following courses

- [CDEV1210](#) Child Growth and Development (3 Credits)
- [CDEV1220](#) Health, Safety & Nutrition (3 Credits)
- [CDEV1230](#) Guiding Children's Behavior (3 Credits)
- [CDEV1240](#) Working with Diverse Families and Children (3 Credits)
- [CDEV1260](#) Observation and Assessment 1 (1 Credit)
- [CDEV1270](#) Learning Environment & Curriculum (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Civil Engineering Technology

A.A.S. Degree • 60 Credits

AAS 3405

### Degree Description

Learners in the Civil Engineering Technology program will learn surveying techniques along with design and construction practices dealing with sewer, water, streets, roads and land surveying. Learners will be introduced to the newest surveying equipment plus computer programming, computer aided drafting and surveying systems. The ability to work independently and make decisions, along with accuracy and neatness are very important qualities for technicians. Technicians must be able to deal with professional people as well as the general public on a daily basis. The A.A.S. degree provides students with the necessary technical skills plus the Liberal Arts and Sciences base to broaden their horizons and aid them in seeing employment advancement.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Civil Engineering Technology department. [See the Civil Engineering Technology department page for more details](#)

### Required Technical Courses (13 Courses)

Complete the following courses:

[CTLS1110](#) Basic AutoCAD (3 Credits)

Or

[CDCR1110](#) ( Credit)

[CTLS1800](#) Construction Contract Documents (3 Credits)

[CTLS1805](#) Civil Cad (3 Credits)

[CTLS1810](#) Introduction to Surveying (4 Credits)

[CTLS1815](#) Surveying 2 (4 Credits)

[CTLS1820](#) Materials Technology (4 Credits)

[CTLS2110](#) Statics and Strengths of Materials (3 Credits)

[CTLS2825](#) Civil Design (4 Credits)

[CTLS2830](#) Construction Estimating and Inspections (4 Credits)

[CTLS2835](#) Introduction to Land Surveying (3 Credits)

[GIS 2840](#) Introduction to Geographic Information Systems (4 Credits)

Or

[CTLS2840](#) ( Credit)

[CTLS2846](#) Hydrology and Hydraulics (3 Credits)

[CTLS2851](#) Internship (3 Credits)

### Required Math Courses (1 Course)

Select one or two courses to complete the Math requirement:

[MATH120](#) College Algebra (4 Credits)

And

[MATH125](#) Trigonometry (3 Credits)

Or

[MATH130](#) Pre-Calculus (4 Credits)

### Required Liberal Arts & Sciences (1 Course)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal areas.

The following course is required:

[ENGL100](#) Composition (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### A minimum of 4 - 7 credits from one MnTC Goal Area (4 Credits)

outside of MnTC Goal Areas 1 and 4. Courses must be chosen in consultation with Advisor/Faculty.

[HUM 100](#) Critical Thinking (3 Credits)

[PHIL215](#) Business Ethics (3 Credits)

[PHIL210](#) Environmental Ethics (3 Credits)

[PHIL100](#) Ethics in Society (3 Credits)

[MASS110](#) Introduction to Mass Communication (4 Credits)

[HUM 110](#) ( Credit)

[AST 115](#) ( Credit)

[COMM120](#) Small Group Communication (3 Credits)

[POL 103](#) ( Credit)

[PHIL110](#) Philosophy and Popular Culture (3 Credits)

[PHIL205](#) Special Topics in Philosophy: (1 - 3 Credits)

[PHIL130](#) Logic (4 Credits)

[CAP 250](#) Associate of Arts Capstone Class (1 Credit)

## Community Social Services

A.A.S. Degree • 60 Credits

AAS 2262/AAS 3362

### Degree Description

The A.A.S. degree entitles learners to the Designated Coordinator status in addition to having three years of work experience and applies to supervisory and middle management positions in human services settings licensed by the Consolidated Standards Rule. Learners completing the A.A.S. degree must have certification in CPR and First Aid at the time of graduation. These certifications may be completed through SCC or an employer. The A.A.S. degree offers the graduates the option to continue their education at a four-year institution upon completion.

**Applications to this program are no longer being accepted.**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Community Social Service department. [See the Community Social Service department page for more details](#)

### Required Technical Courses (12 Courses)

Complete the following courses:

- [CSS 1801](#) Direct Service Professionalism (3 Credits)
- [CSS 1802](#) Physical Developmental Supports I (3 Credits)
- [CSS 1804](#) Person Centered Planning (3 Credits)
- [CSS 1811](#) Facilitating Positive Behaviors (4 Credits)
- [CSS 1902](#) Physical Developmental Supports II (3 Credits)
- [CSS 1910](#) Community Social Service Internship (4 Credits)
- [CSS 1911](#) Community Social Service Internship Seminar (1 Credit)
- [CSS 1913](#) Supportive Interventions (4 Credits)
- [HC 1000](#) Medical Terminology (3 Credits)
- [HC 1934](#) Trained Medication Aide (2 Credits)
- [HCTC1886](#) Nursing Assistant (4 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)

### Required Liberal Arts and Sciences (4 Courses)

To complete an AAS Degree, students must complete 24 credits from 3 of the 10 MnTC goal areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [SOWK100](#) Introduction to Social Work (3 Credits)
- [SOWK105](#) Social Welfare Services (3 Credits)
- [SOWK110](#) Community Social Service Projects (3 Credits)

### Other Required Technical Courses

Students are responsible for these two courses outside of the credit totals for the program:

- [HLTH1950](#) CPR (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Liberal Arts and Sciences Electives

Select an additional 11 credits of Liberal Arts and Sciences in consultation with your Advisor.

## Community Social Service

Diploma • 43 Credits

DIP 2261/DIP 3361

### Degree Description

Through the diploma program learners will, in addition to completing the certificate coursework, gain knowledge and skills in human behavior, communication, and medication areas. The diploma will provide the learner with the ability to obtain Designated Coordinator status in addition to having three years of work experience. Learners completing the diploma must have certification in CPR and First aid at the time of graduation. These certifications may be completed through SCC or an employer. Upon completing the coursework from the certificate and diploma the learner will also have the option to complete the A.A.S. degree, which includes 15 credits of transferable Liberal Arts & Sciences coursework. Graduates also have the ability to transfer to Minnesota State University, Mankato as we have an agreement with the Social Work Department.

**Applications to this program are no longer being accepted.**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Community Social Service department. [See the Community Social Service department page for more details](#)

### Required Technical Courses (12 Courses)

Please complete the following courses:

- [CSS 1801](#) Direct Service Professionalism (3 Credits)
- [CSS 1802](#) Physical Developmental Supports I (3 Credits)
- [CSS 1804](#) Person Centered Planning (3 Credits)
- [CSS 1811](#) Facilitating Positive Behaviors (4 Credits)
- [CSS 1902](#) Physical Developmental Supports II (3 Credits)
- [CSS 1910](#) Community Social Service Internship (4 Credits)
- [CSS 1911](#) Community Social Service Internship Seminar (1 Credit)
- [CSS 1913](#) Supportive Interventions (4 Credits)
- [HC 1000](#) Medical Terminology (3 Credits)
- [HC 1934](#) Trained Medication Aide (2 Credits)
- [HCTC1886](#) Nursing Assistant (4 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)

### Required Liberal Arts & Sciences: (1 Course)

You must complete the following course.

- [ENGL100](#) Composition (4 Credits)

### Other Required Technical Courses

Students are responsible for these courses outside of the credit totals for the program.

- [HLTH1950](#) CPR (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Credits (1 Course)

Liberal Arts and Sciences Choose one Liberal Arts and Sciences course from the following list as recommended by advisor.

- [BIOL100](#) Introduction to Biology (4 Credits)
- [MATH154](#) Elementary Statistics (4 Credits)
- [ETHN101](#) American Racial Minorities (3 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)
- [SOC 101](#) Introduction to Sociology (4 Credits)
- [ASL 101](#) American Sign Language 1 (3 Credits)
- [ECON110](#) Principles of Macroeconomics (3 Credits)
- [ECON120](#) Principles of Microeconomics (3 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)
- [POL 110](#) American Government (3 Credits)



## 2015-2016 PROGRAMS OF STUDY

### **Community Social Service Certificate • 17 Credits**

CERT2260/CERT3360

---

#### Degree Description

Through the certificate program students will acquire the knowledge and skills for performing duties as Direct Service Professionals in residential, vocational, recreation, health and education settings.

**Applications to this program are no longer being accepted.**

#### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Community Social Service department. [See the Community Social Service department page for more details](#)

#### **Required Technical Courses (5 Courses)**

Complete the following courses:

- [CSS 1801](#) Direct Service Professionalism (3 Credits)
- [CSS 1802](#) Physical Developmental Supports I (3 Credits)
- [CSS 1804](#) Person Centered Planning (3 Credits)
- [CSS 1811](#) Facilitating Positive Behaviors (4 Credits)
- [HCTC1886](#) Nursing Assistant (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Information Systems

A.A.S. Degree • 60 Credits

AAS 3275

### Degree Description

This program is designed to prepare the learner for a career as a computer programmer, programmer/analyst, database programmer, database administrator, technical writer, technical support specialist, help desk specialist, web designer, web developer, webmaster, software or software tester. The learner will receive a solid background in the basic concepts of computer programming, web page development, web server application development, management and maintenance of web servers, and electronic commerce concepts. The learner will be exposed to major programming languages, systems analysis and software design, computer operating systems, and Internet services.

**Hands-on training is provided on three platforms: IBM Mainframe, IBM Midrange, and PC clients and servers.**

### Degree Student Learning Outcomes

1. Design and code software applications using a variety of programming languages
2. Utilize and maintain relational databases
3. Use web application development tools
4. Apply current web server technologies

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (6 Courses)

Complete all of the following courses:

- [COMP1120](#) Foundations of Computing (4 Credits)
- [COMP1125](#) Spreadsheet/Database Integration (4 Credits)
- [COMP1130](#) Programming Fundamentals (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)

### Select One Track (5 Courses)

#### Enterprise Computing Track

- [COMP2200](#) IBM i5 (iSeries) Operating System (4 Credits)
- [COMP2205](#) RPG IV (iSeries) (4 Credits)
- [COMP2220](#) SQL/DB2 (4 Credits)
- [COMP2300](#) Java (4 Credits)

#### [COMP2145](#) Web Programming (4 Credits)

Or

#### [COMP2150](#) Web Services (4 Credits)

Or

#### [COMP2460](#) Linux (4 Credits)

Or

#### [COMP2500](#) Emerging Technologies (4 Credits)

### Select One Track (5 Courses)

#### Web Programming Track

- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)
- [GCC 1120](#) Graphic Software 1 (4 Credits)

### Required Capstone (2 Credits)

Complete 2 credits:

- [COMP2496](#) Capstone - Software Development (1 - 4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts & Sciences (3 Courses)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal areas. Select the following required courses:

- [ENGL100](#) Composition (4 Credits)

### Elective Liberal Arts & Sciences

Choose an additional 4 credits from MNTC Goal Areas 2,3,5,6,7,8,9 or 10.

Or

[ENGL240](#) Technical Communication (4 Credits)

[COMM110](#) Public Speaking (3 Credits)

Or

[COMM120](#) Small Group Communication (3 Credits)

Or

[COMM140](#) Interpersonal Communication (3 Credits)

[MATH115](#) Concepts in Math (4 Credits)

Or

[MATH120](#) College Algebra (4 Credits)

## Networking Services

A.A.S. Degree • 60 Credits

AAS 3277

### Degree Description

This program prepares the learner with the core skills necessary for a technical support position with a focus on networking services. Training is emphasized in the areas of installing, maintaining, and troubleshooting personal computers, computer networks, and peripheral devices utilizing current industry hardware and software products. Learners also receive an orientation on IBM mid-range and mainframe computer systems that are frequently integrated into corporate networks. Hands-on labs are included in the curriculum to give learners exposure to current and upcoming technology.

### Degree Student Learning Outcomes

1. Design and administer computer networks.
2. Maintain and repair personal computer systems.
3. Support common business application software.
4. Support current computer operating systems.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (6 Courses )

Complete the following courses:

- [COMP1120](#) Foundations of Computing (4 Credits)
- [COMP1125](#) Spreadsheet/Database Integration (4 Credits)
- [COMP1130](#) Programming Fundamentals (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)

### Required Capstone (2 Credits )

Complete 2 credits:

- [COMP2498](#) Capstone - Networking Services (1 - 4 Credits)

### Elective Liberal Arts & Sciences

### Technical Electives (5 Courses )

Select any 5 courses from the following list.

- [COMP2460](#) Linux Administration (4 Credits)
- [COMP2462](#) Microsoft Administration (4 Credits)
- [COMP2466](#) Routing & Switching (4 Credits)
- [COMP2475](#) Security Basics (4 Credits)
- [COMP2456](#) Cloud Technologies and Services (4 Credits)
- [COMP2452](#) Information Storage and Management (4 Credits)
- [COMP2453](#) Virtualization Technologies (4 Credits)
- [COMP2500](#) Emerging Technologies (4 Credits)
- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)

### Required Liberal Arts & Sciences (3 Courses )

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC goal areas. Select the following courses:

- [ENGL100](#) Composition (4 Credits)
- Or
- [ENGL240](#) Technical Communication (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)
- [MATH115](#) Concepts in Math (4 Credits)
- Or
- [MATH120](#) College Algebra (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different

Choose an additional 4 credits from MNTC Goal Areas  
2,3,5,6,7,8,9 or 10

requirements.

## Information Systems Diploma • 60 Credits

DIP 3276

### Degree Description

This program prepares the learner with the core skills necessary for a technical support position with a focus on networking services. Training is emphasized in the areas of installing, maintaining, and troubleshooting personal computers, computer networks, and peripheral devices utilizing current industry hardware and software products. Learners also receive an orientation on IBM mid-range and mainframe computer systems that are frequently integrated into corporate networks. Hands-on labs are included in the curriculum to give learners exposure to current and upcoming technology.

### Diploma Student Learning Outcomes

1. Design and code software applications using a variety of programming languages.
2. Utilize and maintain relational databases.
3. Use web application development tools.
4. Apply current web server technologies.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (6 Courses)

Complete all of the following courses:

- [COMP1120](#) Foundations of Computing (4 Credits)
- [COMP1125](#) Spreadsheet/Database Integration (4 Credits)
- [COMP1130](#) Programming Fundamentals (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)

### Required Capstone (2 Credits)

Complete 2 credits:

- [COMP2496](#) Capstone - Software Development (1 - 4 Credits)

### Technical Electives (5 Courses)

Choose 5 courses from the following list:

- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)
- [GCC 1120](#) Graphic Software 1 (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different

### Required Liberal Arts and Sciences (2 Courses)

Select the following courses:

- [ENGL100](#) Composition (4 Credits)
- Or
- [ENGL240](#) Technical Communication (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)

requirements.

## Networking Services

### Diploma • 60 Credits

DIP 3278

#### Degree Description

This program prepares the learner with the core skills necessary for a technical support position with a focus on networking services. Training is emphasized in the areas of installing, maintaining, and troubleshooting personal computers, computer networks, and peripheral devices utilizing current industry hardware and software products. Learners also receive an orientation on IBM mid-range and mainframe computer systems that are frequently integrated into corporate networks. Hands-on labs are included in the curriculum to give learners exposure to current and upcoming technology.

#### Diploma Student Learning Outcomes

1. Design and administer computer networks.
2. Maintain and repair personal computer systems.
3. Support common business application software.
4. Support current computer operating systems.

#### Admission Dates: Fall and Spring Semester

#### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

#### Required Technical Courses (11 Courses)

Complete the following courses:

- [COMP1120](#) Foundations of Computing (4 Credits)
- [COMP1125](#) Spreadsheet/Database Integration (4 Credits)
- [COMP1130](#) Programming Fundamentals (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)
- [COMP2460](#) Linux Administration (4 Credits)
- [COMP2462](#) Microsoft Administration (4 Credits)
- [COMP2466](#) Routing & Switching (4 Credits)
- [COMP2475](#) Security Basics (4 Credits)
- [COMP2453](#) Virtualization Technologies (4 Credits)

#### Required Capstone (2 Credits)

Complete 2 credits:

- [COMP2498](#) Capstone - Networking Services (1 - 4 Credits)

#### Technical Electives (2 Courses)

You must complete two courses from the following list:

- [COMP2456](#) Cloud Technologies and Services (4 Credits)
- [COMP2452](#) Information Storage and Management (4 Credits)
- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)
- [COMP2200](#) IBM i5 (iSeries) Operating System (4 Credits)
- [COMP2205](#) RPG IV (iSeries) (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Required Liberal Arts & Sciences (2 Courses)

Complete the following courses:

- [ENGL100](#) Composition (4 Credits)
- Or
- [ENGL240](#) Technical Communication (4 Credits)
  
- [COMM110](#) Public Speaking (3 Credits)
- Or
- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)

## Cloud Computing and Virtualization Certificate • 20 Credits

CERT3298

### Degree Description

This certificate provides a complete introduction to Cloud Computing, virtualization, legacy hardware and software considerations and approaches to transitioning information technology from legacy systems to a shared managed service model. Through practical, hands-on activities, learners will explore the technical infrastructure and administrative requirements of server-based computing utilizing both open source and proprietary virtualization software. Prior to entry into this program, it is strongly recommended that learners should complete the Computer Assistant Certificate or have advanced computer literacy and/or IT related industry experience.

### Admission Dates: Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (3 Courses)

Complete the following courses:

- [COMP2456](#) Cloud Technologies and Services (4 Credits)
- [COMP2452](#) Information Storage and Management (4 Credits)
- [COMP2453](#) Virtualization Technologies (4 Credits)

### Technical Electives (8 Credits)

Select two of the following courses:

- [COMP2460](#) Linux (4 Credits)
- [COMP2462](#) Microsoft Network Administration (4 Credits)
- [COMP2466](#) Advanced Networking (4 Credits)
- [COMP2475](#) Information Warfare (4 Credits)
- [COMP2500](#) Emerging Technologies (4 Credits)
- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Computer Assistant Certificate • 23 Credits

CERT3279

---

### Degree Description

This program prepares the learner with the core skills necessary for a technical support position with a focus on personal computer operations. Training is emphasized in the areas of installing, maintaining, and troubleshooting personal computers and peripheral devices utilizing current industry hardware and software products. Learners also receive an orientation on IBM midrange and mainframe computer systems that are frequently integrated into corporate networks. Hands-on labs are included in the curriculum to give students exposure to current and upcoming technology.

Students successfully completing this certificate will have satisfied the requirements of the first year of the Networking Services AAS degree.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (6 Courses)

Complete all of the following courses:

- [COMP1120](#) Foundations of Computing (4 Credits)
- [COMP1125](#) Spreadsheet/Database Integration (4 Credits)
- [COMP1130](#) Programming Fundamentals (4 Credits)
- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## Enterprise Computing Certificate • 20 Credits

CERT3296

### Degree Description

This certificate provides learners with an additional skill-set to support IBM's Power Systems Platform and the IBMi Operating System. Successful graduates will gain experience with RPG, DB2/SQL, and IBMi. This will help a learner bridge the gap between current computer systems and legacy systems still used as part of several enterprise computing systems. Prior to entry into the program, it is strongly recommended that learners complete the Computer Assistant certificate or have advanced programming skills and/or IT related industry experience.

### Admission Dates: Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (4 Courses)

Complete the following courses:

[COMP2200](#) IBM i5 (iSeries) Operating System (4 Credits)

[COMP2205](#) RPG IV (iSeries) (4 Credits)

[COMP2220](#) SQL/DB2 (4 Credits)

[COMP2300](#) Java (4 Credits)

### Technical Electives (4 Credits)

Select one of the following courses:

[COMP2145](#) Web Programming (4 Credits)

[COMP2150](#) Web Services (4 Credits)

[COMP2460](#) Linux (4 Credits)

[COMP2500](#) Emerging Technologies (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Network Administration Certificate • 20 Credits

CERT3297

---

### Degree Description

**\*\*\* PENDING MnSCU APPROVAL \*\*\***

This certificate provides learners with the skills they need to install, troubleshoot and support computers and servers in small to medium sized computer networks. Through hands-on experience building, configuring, and managing computer network hardware and software, learners will develop a broad background in networking technologies, administration, and support. Successful graduates will be ready to pursue careers in network support and administration, and the electives included in the program allow learners to custom design their certificate based on their needs and employment goals. In addition, the program prepares learners for a wide variety of industry certification exams, including Network+, Linux+, LPI, MCP, Security+ and VCP in the areas of Cisco Networking, Microsoft, Security, and Technical Support. Students can take these exams at the South Central College Testing Center.

### Admission Dates: Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (4 Courses)

Complete the following courses:

- [COMP2460](#) Linux (4 Credits)
- [COMP2462](#) Microsoft Network Administration (4 Credits)
- [COMP2466](#) Advanced Networking (4 Credits)
- [COMP2475](#) Information Warfare (4 Credits)

### Technical Electives (4 Credits)

Select one of the following courses:

- [COMP2456](#) Cloud Technologies and Services (4 Credits)
- [COMP2452](#) Information Storage and Management (4 Credits)
- [COMP2453](#) Virtualization Technologies (4 Credits)
- [COMP2500](#) Emerging Technologies (4 Credits)
- [COMP2145](#) Web Programming (4 Credits)
- [COMP2150](#) Web Services (4 Credits)
- [COMP2300](#) Java (4 Credits)
- [COMP2310](#) Visual Basic.Net (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Web Programmer Certificate • 20 Credits

CERT3261

---

### Degree Description

This program is designed for the individual looking to expand their knowledge of web programming and applications. Learners will focus on skills and software that allow for the behind-the-scenes functions of a website.

**These courses may also be applied to the Information Systems AAS degree.**

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Careers department. [See the Computer Careers department page for more details](#)

### Required Technical Courses (5 Courses)

Complete all of the following courses:

[COMP2145](#) Web Programming (4 Credits)

[COMP2150](#) Web Services (4 Credits)

[COMP2300](#) Java (4 Credits)

[COMP2310](#) Visual Basic.Net (4 Credits)

[GCC 1120](#) Graphic Software 1 (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Computer Integrated Machining

A.A.S. Degree • 72 Credits

AAS 2442/AAS 3458

### Degree Description

The A.A.S degree program consists of opportunities for students to work with multiple aspects of Computer Integrated Machining including working with engineering drawings, CNC programming, lathe turning, vertical milling and grinding, jig and fixtures, and mold and die. During this A.A.S. degree program, learners will have the opportunity to receive eleven national credentials from the National Institute for Metalworking Skills (NIMS). In addition to the technical training, learners in the A.A.S. degree will receive the benefits of valuable Liberal Arts and Sciences courses.

### Admission Dates: Fall Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Integrated Machining department. [See the Computer Integrated Machining department page for more details](#)

### Required Technical Courses (23 Courses )

You must complete all of the following classes:

- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [CIM 1102](#) CNC Programming I (2 Credits)
- [CIM 1103](#) Lathe Turning I (2 Credits)
- [CIM 1104](#) Vertical Milling I (2 Credits)
- [CIM 1106](#) Machine Tool Theory I (1 Credit)
- [CIM 1150](#) Machining Computations (2 Credits)
- [CIM 1201](#) Interpreting Engineering Drawings II (2 Credits)
- [CIM 1202](#) CNC Programming II (3 Credits)
- [CIM 1203](#) Lathe Turning II (3 Credits)
- [CIM 1204](#) Vertical Milling II (2 Credits)
- [CIM 1205](#) Surface Grinding II (2 Credits)
- [CIM 1206](#) Machine Tool Theory II (2 Credits)
- [CIM 1207](#) Interpreting Engineering Drawings (2 Credits)
- [CIM 2101](#) Interpreting Engineering Drawings III (2 Credits)
- [CIM 2103](#) CNC Programming III (4 Credits)
- [CIM 2106](#) Jigs and Fixtures (2 Credits)
- [CIM 2109](#) Applications II (4 Credits)
- [CIM 2204](#) CNC Programming IV (4 Credits)
- [CIM 2205](#) Advanced Quality and Inspection (4 Credits)
- [CIM 2206](#) Mold and Die (2 Credits)

### CIM Capstone (2 Credits )

Select 2 credits from the following:

- [CIM 2211](#) Capstone (2 - 4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (2 Courses )

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

Choose two courses from the following:

- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)

### Elective Liberal Arts and Sciences

Select an additional 6 credits from the MnTC goal areas to total the 15 credits required.

### Additional Required Liberal Arts and Sciences (1 Course )

Select at least one course from MnTC Goal 4.

## Computer Integrated Machining

### Diploma • 66 Credits

DIP 2443/DIP 3459

#### Degree Description

The diploma program consists of opportunities for students to work with multiple aspects of Computer Integrated Machining including working with engineering drawings, CNC programming, lathe turning, vertical milling and grinding, jig and fixtures, and mold and die. During this diploma program, learners will have the opportunity to receive eleven national credentials from the National Institute for Metalworking Skills (NIMS).

#### Admission Dates: Fall Semester

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Integrated Machining department. [See the Computer Integrated Machining department page for more details](#)

#### Required Technical Courses (22 Courses )

You must complete all of the following courses:

- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [CIM 1102](#) CNC Programming I (2 Credits)
- [CIM 1104](#) Vertical Milling I (2 Credits)
- [CIM 1106](#) Machine Tool Theory I (1 Credit)
- [CIM 1107](#) Internship (2 Credits)
- [CIM 1100](#) Interpreting Engineering Drawings I - Introduction (1 Credit)
- [CIM 1206](#) Machine Tool Theory II (2 Credits)
- [CIM 1201](#) Interpreting Engineering Drawings II (2 Credits)
- [CIM 1202](#) CNC Programming II (3 Credits)
- [CIM 1203](#) Lathe Turning II (3 Credits)
- [CIM 1204](#) Vertical Milling II (2 Credits)
- [CIM 1150](#) Machining Computations (2 Credits)
- [CIM 1205](#) Surface Grinding II (2 Credits)
- [CIM 2101](#) Interpreting Engineering Drawings III (2 Credits)
- [CIM 2102](#) CNC Programming III (3 Credits)
- [CIM 2106](#) Jigs and Fixtures (2 Credits)
- [CIM 2108](#) Applications II (2 - 4 Credits)
- [CIM 2202](#) CNC Programming IV (3 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

#### CIM Capstone (4 Credits )

Select 4 credits from the following:

- [CIM 2211](#) Capstone (2 - 4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Required Liberal Arts and Sciences (2 Courses )

Choose from the following courses:

- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)

## CIM Right Skills Now Certificate • 20 Credits

CERT3468/ CERT2447

---

### Degree Description

This is an entry-level certificate, providing a pathway to the longer CIM diploma and A.A.S. degree. It provides an introduction to multiple elements of CNC production, including working with engineering drawings, CNC programming, lathe turning, vertical milling, and grinding. Additionally, there will be an internship component to the program thus making the program a Right Skills Now academic award. During this certificate, learners will have the opportunity to receive national credentials from the National Institute for Metalworking Skills (NIMS).

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Computer Integrated Machining department. [See the Computer Integrated Machining department page for more details](#)

### Required Technical Courses (10 Courses)

Complete the following courses:

- [CIM 1102](#) CNC Programming I (2 Credits)
- [CIM 1103](#) Lathe Turning I (2 Credits)
- [CIM 1104](#) Vertical Milling I (2 Credits)
- [CIM 1106](#) Machine Tool Theory I (1 Credit)
- [CIM 1107](#) Internship (2 Credits)
- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Culinary Arts

A.A.S. Degree • 67 Credits

AAS 3409

### Degree Description

The Culinary Arts program is designed to meet the varied needs of food service establishments. Learners are provided with a background of hot and cold food preparation, food service management, and cost control. Demonstrations and practical experience provided in our operational dining room/cafeteria permit learners to develop the necessary food preparation skills for gainful employment.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Culinary Arts department. [See the Culinary Arts department page for more details](#)

### Required Technical Courses (18 Courses )

Complete the following courses:

[CULN1100](#) Introduction to Foodservice (2 Credits)  
[CULN1101](#) Sanitation & Food Safety (2 Credits)  
[CULN1102](#) Culinary Math (1 Credit)  
[CULN1103](#) Culinary Fundamentals 1 (4 Credits)  
[CULN1104](#) Culinary Fundamentals 2 (4 Credits)  
[CULN1105](#) Butchery (4 Credits)  
[CULN1106](#) World Cuisine & Cultures (2 Credits)  
[CULN1200](#) Garde Manager 1 (3 Credits)  
[CULN1201](#) Garde Manager 2 (3 Credits)  
[CULN1202](#) A la Carte Cooking & Production (4 Credits)  
[CULN1203](#) Baking 1 (2 Credits)  
[CULN1204](#) Baking 2 (4 Credits)  
[CULN1205](#) Hospitality Nutrition (2 Credits)  
[CULN1300](#) Culinary Management (4 Credits)  
[CULN1301](#) Advanced Culinary (4 Credits)  
[CULN1302](#) Sustainable Foods & Organic Cooking (1 Credit)  
[MKT 1800](#) Introduction to Sales (3 Credits)  
[MKT 1830](#) Customer Service (3 Credits)

### Required Liberal Arts and Sciences Course (1 Course )

Choose one course from MnTC Goal Area 9 (not COMM 110):

[COMM110](#) Public Speaking (3 Credits)  
[MASS110](#) Introduction to Mass Communication (4 Credits)  
[PHIL100](#) Ethics in Society (3 Credits)  
[PHIL150](#) Medical Ethics (3 Credits)  
[PHIL210](#) Environmental Ethics (3 Credits)  
[PHIL215](#) Business Ethics (3 Credits)  
[PHIL220](#) Philosophy and the Just Society (3 Credits)  
[PSYC140](#) Psychology of Positive Adjustment (4 Credits)  
[POL 110](#) American Government (3 Credits)  
[SOC 106](#) Introduction to Criminal Justice (4 Credits)  
[AIS 120](#) Dakota Culture, History and Language (3 Credits)  
[SOC 205](#) Special Topics in Sociology: (3 Credits)  
[SOC 206](#) Juvenile Delinquency (3 Credits)  
[SOC 251](#) Criminology and Criminal Behavior (4 Credits)  
[SOC 259](#) Drugs and Society (3 Credits)  
[PHIL140](#) Science in Society (3 Credits)  
[PHIL205](#) Special Topics in Philosophy: (1 - 3 Credits)  
[COMM110](#) Public Speaking (3 Credits)  
[ECON110](#) Principles of Macroeconomics (3 Credits)  
[ECON120](#) Principles of Microeconomics (3 Credits)  
[ECON130](#) Economics of Public Issues (3 Credits)

### Required Liberal Arts and Sciences (1 Course )

To complete an AAS degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas. Courses must be approved by advisor/faculty.

Choose one COMM course from the following list:

[COMM100](#) Introduction to Human Communication (3 Credits)  
[COMM110](#) Public Speaking (3 Credits)  
[COMM120](#) Small Group Communication (3 Credits)  
[COMM130](#) Intercultural Communication (3 Credits)  
[COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Additional Liberal Arts and Sciences

Select 9 more credits from any MnTC goal area. Courses must be chosen in consultation with your Advisor.

[ENGL115](#) Global Peace and Social Justice (4 Credits)

[ETHN101](#) American Racial Minorities (3 Credits)

[ETHN110](#) The Immigrant Experience (3 Credits)

## Culinary Arts

### Diploma • 55 Credits

DIP 3411

#### Degree Description

The Culinary Arts program is designed to meet the varied needs of food service establishments. Learners are provided with a background of hot and cold food preparation, food service management, and cost control. Demonstrations and practical experience provided in our operational dining room/cafeteria permit learners to develop the necessary food preparation skills for gainful employment.

#### Admission Dates: Fall Semester

#### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Culinary Arts department. [See the Culinary Arts department page for more details](#)

#### Required Technical Courses (17 Courses )

[CULN1100](#) Introduction to Foodservice (2 Credits)  
[CULN1101](#) Sanitation & Food Safety (2 Credits)  
[CULN1102](#) Culinary Math (1 Credit)  
[CULN1103](#) Culinary Fundamentals 1 (4 Credits)  
[CULN1104](#) Culinary Fundamentals 2 (4 Credits)  
[CULN1105](#) Butchery (4 Credits)  
[CULN1106](#) World Cuisine & Cultures (2 Credits)  
[CULN1200](#) Garde Manager 1 (3 Credits)  
[CULN1201](#) Garde Manager 2 (3 Credits)  
[CULN1202](#) A la Carte Cooking & Production (4 Credits)  
[CULN1203](#) Baking 1 (2 Credits)  
[CULN1204](#) Baking 2 (4 Credits)  
[CULN1205](#) Hospitality Nutrition (2 Credits)  
[CULN1300](#) Culinary Management (4 Credits)  
[CULN1301](#) Advanced Culinary (4 Credits)  
[CULN1302](#) Sustainable Foods & Organic Cooking (1 Credit)  
[MKT 1830](#) Customer Service (3 Credits)

#### Required Liberal Arts and Sciences (1 Course )

Choose one COMM course from the following list:

[COMM100](#) Introduction to Human Communication (3 Credits)  
[COMM110](#) Public Speaking (3 Credits)  
[COMM120](#) Small Group Communication (3 Credits)  
[COMM130](#) Intercultural Communication (3 Credits)  
[COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

#### Required Liberal Arts and Sciences (1 Course )

Choose one course from MnTC Goal Area 9 (if COMM 110 is chosen, it will only be used in requirement 2 and will NOT fulfill this requirement).

[COMM110](#) Public Speaking (3 Credits)  
[MASS110](#) Introduction to Mass Communication (4 Credits)  
[PHIL100](#) Ethics in Society (3 Credits)  
[PHIL150](#) Medical Ethics (3 Credits)  
[PHIL210](#) Environmental Ethics (3 Credits)  
[PHIL215](#) Business Ethics (3 Credits)  
[PHIL220](#) Philosophy and the Just Society (3 Credits)  
[PSYC140](#) Psychology of Positive Adjustment (4 Credits)  
[POL 110](#) American Government (3 Credits)  
[SOC 106](#) Introduction to Criminal Justice (4 Credits)  
[AIS 120](#) Dakota Culture, History and Language (3 Credits)  
[SOC 205](#) Special Topics in Sociology: (3 Credits)  
[SOC 206](#) Juvenile Delinquency (3 Credits)  
[SOC 251](#) Criminology and Criminal Behavior (4 Credits)  
[SOC 259](#) Drugs and Society (3 Credits)  
[PHIL140](#) Science in Society (3 Credits)  
[PHIL205](#) Special Topics in Philosophy: (1 - 3 Credits)  
[COMM110](#) Public Speaking (3 Credits)  
[ECON110](#) Principles of Macroeconomics (3 Credits)  
[ECON120](#) Principles of Microeconomics (3 Credits)  
[ECON130](#) Economics of Public Issues (3 Credits)

[ENGL115](#) Global Peace and Social Justice (4 Credits)

[ETHN101](#) American Racial Minorities (3 Credits)

[ETHN110](#) The Immigrant Experience (3 Credits)

## Dental Assisting

A.A.S. Degree • 63 Credits

AAS 3303

### Degree Description

Here is a list of courses required to earn the Dental Assisting Associate of Applied Science Degree

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Dental Assisting department. [See the Dental Assisting department page for more details](#)

### Required Technical Courses (18 Courses )

The following courses must be completed:

- [DA 1811](#) Dental Science I (2 Credits)
- [DA 1812](#) Oral Anatomy (2 Credits)
- [DA 1813](#) Preclinical Dental Assisting (2 Credits)
- [DA 1814](#) Chairside Dental Assisting I (4 Credits)
- [DA 1815](#) Dental Materials (3 Credits)
- [DA 1816](#) Radiology I (3 Credits)
- [DA 1823](#) Dental Science II (2 Credits)
- [DA 1825](#) Dental Assisting Expanded Functions (5 Credits)
- [DA 1826](#) Radiology II (3 Credits)
- [DA 1827](#) Dental Nutrition (1 Credit)
- [DA 1828](#) Nitrous Oxide Sedation (1 Credit)
- [DA 1830](#) Chairside Dental Assisting II (4 Credits)
- [DA 1831](#) D.A. Internship I (4 Credits)
- [DA 1841](#) D.A. Internship II (4 Credits)
- [DA 1850](#) Dental Business Technologies (3 Credits)
- [HLTH1950](#) CPR (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)
- [HLTH1954](#) Safety (1 Credit)

### Required Liberal Arts & Sciences (3 Courses)

To complete an AAS Degree, students must complete 17 MNTC credits from 3 of the 10 MNTC Goal Areas. Courses must be approved by advisor/faculty. The following courses are required:

- [COMM140](#) Interpersonal Communication (3 Credits)
- [ENGL100](#) Composition (4 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)

### Choose one MATH course (MATH 115 or higher) from (1 Course)

Choose one course from the following list:

- [MATH115](#) Concepts in Math (4 Credits)
- [MATH120](#) College Algebra (4 Credits)
- [MATH125](#) Trigonometry (3 Credits)
- [MATH130](#) Pre-Calculus (4 Credits)
- [MATH131](#) Calculus I (4 Credits)
- [MATH132](#) Calculus II (4 Credits)
- [MATH154](#) Elementary Statistics (4 Credits)
- [MATH231](#) Ordinary Differential Equations (4 Credits)
- [MATH233](#) Multivariable Calculus (4 Credits)
- [MATH240](#) Elementary Linear Algebra (4 Credits)

### Elective Liberal Arts and Sciences MnTC Goal 5 (3 Credits)

Select 3 credits from MnTC Goal 5: History and Social and Behavioral Sciences. Course should be chosen with Advisor approval.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Dental Assisting Diploma • 52 Credits

DIP 3302

---

### Degree Description

Here is a list of courses required to earn the Dental Assisting Diploma of Occupational Proficiency

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Dental Assisting department. [See the Dental Assisting department page for more details](#)

### Required Technical Courses (18 Courses )

Complete all of the following courses:

- [DA 1811](#) Dental Science I (2 Credits)
- [DA 1812](#) Oral Anatomy (2 Credits)
- [DA 1813](#) Preclinical Dental Assisting (2 Credits)
- [DA 1814](#) Chairside Dental Assisting I (4 Credits)
- [DA 1815](#) Dental Materials (3 Credits)
- [DA 1816](#) Radiology I (3 Credits)
- [DA 1823](#) Dental Science II (2 Credits)
- [DA 1825](#) Dental Assisting Expanded Functions (5 Credits)
- [DA 1826](#) Radiology II (3 Credits)
- [DA 1827](#) Dental Nutrition (1 Credit)
- [DA 1828](#) Nitrous Oxide Sedation (1 Credit)
- [DA 1830](#) Chairside Dental Assisting II (4 Credits)
- [DA 1831](#) D.A. Internship I (4 Credits)
- [DA 1841](#) D.A. Internship II (4 Credits)
- [DA 1850](#) Dental Business Technologies (3 Credits)
- [HLTH1950](#) CPR (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)
- [HLTH1954](#) Safety (1 Credit)

id='courseList'>

### Required General Education (2 Courses)

Courses must be selected in consultation with advisor/faculty.

- [PHIL100](#) Ethics in Society (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## 2015-2016 PROGRAMS OF STUDY

### Emergency Medical Technician

---

#### Degree Description

Emergency Medical Technician is NOT a program leading to a degree at South Central College. Rather, SCC offers a series of courses that lead to certifications which prepare learners to render emergency medical services to the public.

These certifications are not eligible for federal student aid.

#### Basic Entrance Requirements

Students must be 18 years of age prior to the start of the initial Emergency Medical Technician (EMT) course. There is not an age requirement for the First Responder course.

#### Student Background Studies

Minnesota law requires that any person who provides services that involve direct contact with patients and residents at a health care or child care facility licensed by the Minnesota Department of Health have a background study conducted by the state. An individual who is disqualified from having direct patient contact as a result of the background study, and whose disqualification is not set aside by the Commissioner of Health, will not be permitted to participate in a clinical placement in a Minnesota licensed health care or child care facility. Failure to participate in a clinical placement required by the program could result in ineligibility to qualify for completion of the course.

#### Admission Dates: Fall and Spring Semester

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Emergency Medical Services department. [See the Emergency Medical Services department page for more details](#)

#### (4 Courses)

[HEMS1200](#) Emergency Medical Technician Initial (160 Hours) (7 Credits)

[HEMS1220](#) Emergency Medical Technician Refresher (24 Hours) (2 Credits)

[HEMS1300](#) First Responder Initial (48 Hours) (2 Credits)

[HEMS1320](#) First Responder Refresher (16 Hours) (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Energy Technical Specialist

A.A.S. Degree • 60 Credits

AAS 3482

### Degree Description

The Energy Technical Specialist Associate of Applied Science degree will convey the skills and knowledge necessary to be successful in both the traditional and renewable energy fields. Learners will have the option to take courses in windsmith, ethanol, biodiesel, solar power, fossil fuels and power generation.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Energy Technical Specialist department. [See the Energy Technical Specialist department page for more details](#)

### Required Technical Courses (12 Courses)

Select the following courses:

[MECA1122](#) Electricity - Devices and Circuits I (3 Credits)  
[MECA1210](#) Digital Electronics (3 Credits)  
[MECA1220](#) Mechanical Systems (3 Credits)  
[MECA1222](#) Electricity - Devices and Circuits II (3 Credits)  
[MECA1250](#) Mechatronics Systems Operations I (3 Credits)  
[MECA1270](#) Modeling and Simulation (3 Credits)  
[MECA2110](#) Sensors and Control (3 Credits)  
[MECA2120](#) Fluid Power 1 (3 Credits)  
[MECA2130](#) Hydraulics (3 Credits)  
[RNEW1115](#) Mechanical Fundamentals (MN West) (3 Credits)  
[RNEW1300](#) Introduction to Traditional/Renewable Energy (MN West) (3 Credits)

[HLTH1954](#) Safety (1 Credit)

And

[ELWT1160](#) Environmental Health and Safety (MN West) (1 Credit)

Or

[SHA 1600](#) Introduction to Industrial Safety & Health (Hibbing CC) (2 Credits)

### Elective Credits (10 Credits)

Technical Courses (Specialty Emphasis) Select 10 credits from the following Energy Technology Specialty Options. Courses are offered at multiple MnSCU colleges. See your advisor for more information. Windsmith, Ethanol, Biodiesel, Solar Power, Fossil Fuels, Power Generation

#### WIND POWER

[ELWT1100](#) Wind Energy Fundamentals (MN West) (3 Credits)

[ELWT1170](#) OSHA Standards & Climbing Lab (MN West) (2 Credits)

#### SOLAR

#### SEE ADVISOR

#### ETHANOL

[RNEW1100](#) Process Dynamics (MN West) (3 Credits)

[RNEW1101](#) Ethanol Process Fundamentals (MN West) (2 Credits)

[RNEW1175](#) Industrial Water Treatment (MN West) (2 Credits)

[RNEW2120](#) Ethanol Separation Technology (MN West) (2 Credits)

#### BIODIESEL

[RNEW1100](#) Process Dynamics (MN West) (3 Credits)

[RNEW1102](#) Biodiesel Process Fundamentals (MN West) (2 Credits)

[RNEW1175](#) Industrial Water Treatment (MN West) (2 Credits)

[RNEW1195](#) Feedstock, Technology & Regulations (MN West) (2 Credits)

#### FOSSIL FUEL

#### SEE ADVISOR

#### POWER GEN

[ETEC2546](#) Power Plant Technology ( St. Cloud TCC) (4 Credits) ( Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (3 Courses)

To complete an AAS degree, students must complete courses in 3 of the 10 MNTC goal areas. These courses do not apply to the 53 technical credits and may appear elsewhere on your degree audit.

Select the following courses:

[ENGL100](#) Composition (4 Credits)

[BIOL106](#) Introduction to Cell Biology (3 Credits)

And

[CHEM108](#) Introduction to Chemistry (4 Credits)

Or

[PHYS101](#) Introductory Physics (3 Credits)

Or

[PHYS211](#) Principles in Physics I (4 Credits)

[MATH120](#) College Algebra (4 Credits)



## 2015-2016 PROGRAMS OF STUDY

### English for Academic Purposes

---

#### Degree Description

The mission of English for Academic Purposes (EAP) at South Central College is to help English language learners attain their college and career goals by improving their academic language abilities. Mandatory placement in EAP courses is based on the ESL Listening and ESL Reading Accuplacer scores.

Learners scoring 40-100 on the ESL Reading Accuplacer test are required to enroll in and successfully complete EAP 0085 EAP College Writing and Grammar with a grade of C or better.

Learners scoring 45-100 on the ESL Listening Accuplacer test are required to enroll in and successfully complete EAP 0080 EAP Reading and Oral Communication with a grade of C or better.

After successfully completing the EAP courses, learners will complete ENGL 0090 and READ 0090 courses or retake the Accuplacer, for a small fee, to determine college readiness. Learners scoring below the ranges listed are required to meet with South Central College faculty and staff to discuss available options at the college.

South Central College is committed to preparing all learners for academic success and to assist learners in making a successful transition into the college academic environment.

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the English for Academic Purposes department. [See the English for Academic Purposes department page for more details](#)

#### (2 Courses)

[EAP 0080](#) EAP Reading and Oral Communication (6 Credits)

[EAP 0085](#) EAP College Writing and Grammar (6 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Farm Business Management

### Diploma • 60 Credits

DIP 2101/DIP 3118

#### Degree Description

The Farm Business Management program is designed for those actively engaged in the operation and management of a farm business. The purpose of the program is to develop the manager's ability to organize resources in order to meet business and family goals. Management is the utilization of resources to maximize the return to the scarcest resource which is a continuous decision-making process. The program emphasizes goal setting, the identification of resources, records management, business analysis and interpretation.

This program is eligible for state grant funding only.

#### Admission Dates: Fall, Spring, and Summer Semester

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Farm Business Management department. [See the Farm Business Management department page for more details](#)

#### Required Technical Courses (12 Courses)

Complete the following courses:

- [FBMT1112](#) Foundations for Farm Business Management (4 Credits)
- [FBMT1121](#) Preparation for Farm Business Analysis (4 Credits)
- [FBMT1122](#) Implementing the System Management Plan (4 Credits)
- [FBMT1131](#) Managing and Modifying Farm System Data (4 Credits)
- [FBMT1132](#) Interpreting and Using Farm System Data (4 Credits)
- [FBMT1211](#) Intro to Farm Business Management (4 Credits)
- [FBMT2141](#) Interpreting and Evaluation of Financial Data (4 Credits)
- [FBMT2142](#) Interpreting Trends in Business Planning (4 Credits)
- [FBMT2151](#) Strategies in Farm System Data Management (4 Credits)
- [FBMT2152](#) Integrating System Information for Financial Planning (4 Credits)
- [FBMT2161](#) Examination of the Context of Farm System Management (4 Credits)
- [FBMT2162](#) Refining Farm System Management (4 Credits)

#### Required Liberal Arts and Sciences (6 Credits)

To complete the Diploma, students must complete 6 MnTC credits from 2 of the 10 MnTC goal areas. Courses must be selected in consultation with advisor/faculty.

#### Technical Electives (6 Credits)

Complete 6 credits from the following courses:

- [FBMT1213](#) Managing a Farm System in a Global Economy (2 Credits)
- [FBMT1223](#) Using System Analysis in Total Farm Planning (2 Credits)
- [FBMT1233](#) Application of Productive Enterprise Information (2 Credits)
- [FBMT2200](#) Special Topics-General Farm Management (1 Credit)
- [FBMT2239](#) Special Topics-Livestock (2 Credits)
- [FBMT2243](#) Using Financial Instruments in Farm Systems Management (2 Credits)
- [FBMT2253](#) System Plans and Projections (2 Credits)
- [FBMT2263](#) Evaluating Farm System Programs (2 Credits)
- [FBMT2300](#) Computer Applications in Business Management (2 Credits)
- [FBMT2305](#) Legal Issues in Ag (2 Credits)
- [FBMT2310](#) Environmental Interactions in Agriculture (2 Credits)
- [FBMT2315](#) Effective Time Management (2 Credits)
- [FBMT2320](#) Family Wellness and Business Relationships (2 Credits)
- [FBMT2325](#) Ethics in this Business of Agriculture (2 Credits)
- [FBMT2330](#) Business Math Principles (2 Credits)
- [FBMT2335](#) Labor Economics and Management (2 Credits)
- [FBMT2340](#) Rural Leadership (2 Credits)
- [FBMT2345](#) CPR and First Aid (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

**Farm Business Management Advanced Certificate**

Certificate • 30 Credits

CERT2110/CERT3122

**Degree Description**

The Advanced Farm Business Management Certificate is designed for learners who have completed the full Farm Business Management program and wish to continue to update their management skills in the rapidly changing and challenging area of farm business management. Similar to Farm Business Management, most learners in the Advanced Farm Business Management program will enroll as part-time students and will carry 5 credits per semester.

**Admission Dates: Fall, Spring, and Summer Semester****Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Farm Business Management department. [See the Farm Business Management department page for more details](#)

**Required Technical Courses (12 Courses)**

Select the following courses:

[FBMA2100](#) Fundamentals of Financial Management as it Relates to Risk Management (3 Credits)

[FBMA2101](#) Applied Financial Management as it Relates to Risk Management (3 Credits)

[FBMA2110](#) Fundamentals of Financial Management/Strategic Planning Emphasis (3 Credits)

[FBMA2111](#) Applied Financial Management/Strategic Planning Emphasis (3 Credits)

[FBMA2120](#) Fundamentals of Financial Mgmt/Business Plan Emphasis (3 Credits)

[FBMA2121](#) Applications in Financial Management/Business Plans (3 Credits)

[FBMA2130](#) Directed Study - Decision Making (2 Credits)

[FBMA2131](#) Directed Study - Communications (2 Credits)

[FBMA2132](#) Directed Studies in Modern Agricultural Technology (2 Credits)

[FBMA2133](#) Directed Studies in Farm Business and/or Family Transition (2 Credits)

[FBMA2134](#) Directed Study - Personnel Management (2 Credits)

[FBMA2135](#) Directed Study - Enterprise Alternatives (2 Credits)

**Elective Credits (Suggested)**

These courses are not required but are suggested as courses which may be beneficial to you in this career field. You will graduate from this program even if you do not complete these courses.

[FBMT1213](#) Managing a Farm System in a Global Economy (2 Credits)

[FBMT1223](#) Using System Analysis in Total Farm Planning (2 Credits)

[FBMT1233](#) Application of Productive Enterprise Information (2 Credits)

[FBMT2200](#) Special Topics-General Farm Management (1 Credit)

[FBMT2239](#) Special Topics-Livestock (2 Credits)

[FBMT2243](#) Using Financial Instruments in Farm Systems Management (2 Credits)

[FBMT2253](#) System Plans and Projections (2 Credits)

[FBMT2263](#) Evaluating Farm System Programs (2 Credits)

[FBMT2300](#) Computer Applications in Business Management (2 Credits)

[FBMT2305](#) Legal Issues in Ag (2 Credits)

[FBMT2310](#) Environmental Interactions in Agriculture (2 Credits)

[FBMT2315](#) Effective Time Management (2 Credits)

[FBMT2320](#) Family Wellness and Business Relationships (2 Credits)

[FBMT2325](#) Ethics in this Business of Agriculture (2 Credits)

[FBMT2330](#) Business Math Principles (2 Credits)

[FBMT2335](#) Labor Economics and Management (2 Credits)

[FBMT2340](#) Rural Leadership (2 Credits)

[FBMT2345](#) CPR and First Aid (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Applications in Farm Business Management Certificate • 30 Credits

CERT2149/CERT3149

### Degree Description

Here is a list of courses required to earn the Applications in Farm Business Management Certificate of Training

**Admission Dates: Fall, Spring, and Summer Semester**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Farm Business Management department. [See the Farm Business Management department page for more details](#)

### Required Technical Courses (6 Courses)

Select the following courses:

- [FBMT2141](#) Interpreting and Evaluation of Financial Data (4 Credits)
- [FBMT2142](#) Interpreting Trends in Business Planning (4 Credits)
- [FBMT2151](#) Strategies in Farm System Data Management (4 Credits)
- [FBMT2152](#) Integrating System Information for Financial Planning (4 Credits)
- [FBMT2161](#) Examination of the Context of Farm System Management (4 Credits)
- [FBMT2162](#) Refining Farm System Management (4 Credits)

### Required Electives (6 Credits)

Select 6 credits from the following courses:

- [FBMT1213](#) Managing a Farm System in a Global Economy (2 Credits)
- [FBMT1223](#) Using System Analysis in Total Farm Planning (2 Credits)
- [FBMT1233](#) Application of Productive Enterprise Information (2 Credits)
- [FBMT2200](#) Special Topics-General Farm Management (1 Credit)
- [FBMT2239](#) Special Topics-Livestock (2 Credits)
- [FBMT2243](#) Using Financial Instruments in Farm Systems Management (2 Credits)
- [FBMT2253](#) System Plans and Projections (2 Credits)
- [FBMT2263](#) Evaluating Farm System Programs (2 Credits)
- [FBMT2300](#) Computer Applications in Business Management (2 Credits)
- [FBMT2305](#) Legal Issues in Ag (2 Credits)
- [FBMT2310](#) Environmental Interactions in Agriculture (2 Credits)
- [FBMT2315](#) Effective Time Management (2 Credits)
- [FBMT2320](#) Family Wellness and Business Relationships (2 Credits)
- [FBMT2325](#) Ethics in this Business of Agriculture (2 Credits)
- [FBMT2330](#) Business Math Principles (2 Credits)
- [FBMT2335](#) Labor Economics and Management (2 Credits)
- [FBMT2340](#) Rural Leadership (2 Credits)
- [FBMT2345](#) CPR and First Aid (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Essentials of Farm Business Management

Certificate • 30 Credits

CERT2148/CERT3148

### Degree Description

Here is a list of courses required to earn the Essentials of Farm Business Management Certificate of Training

**Admission Dates: Fall, Spring, and Summer Semester**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Farm Business Management department. [See the Farm Business Management department page for more details](#)

### Required Technical Courses (6 Courses)

Select the following courses:

- [FBMT1112](#) Foundations for Farm Business Management (4 Credits)
- [FBMT1121](#) Preparation for Farm Business Analysis (4 Credits)
- [FBMT1122](#) Implementing the System Management Plan (4 Credits)
- [FBMT1131](#) Managing and Modifying Farm System Data (4 Credits)
- [FBMT1132](#) Interpreting and Using Farm System Data (4 Credits)
- [FBMT1211](#) Intro to Farm Business Management (4 Credits)

### Required Electives (6 Credits)

Select 6 credits from the following courses:

- [FBMT1213](#) Managing a Farm System in a Global Economy (2 Credits)
- [FBMT1223](#) Using System Analysis in Total Farm Planning (2 Credits)
- [FBMT1233](#) Application of Productive Enterprise Information (2 Credits)
- [FBMT2200](#) Special Topics-General Farm Management (1 Credit)
- [FBMT2239](#) Special Topics-Livestock (2 Credits)
- [FBMT2243](#) Using Financial Instruments in Farm Systems Management (2 Credits)
- [FBMT2253](#) System Plans and Projections (2 Credits)
- [FBMT2263](#) Evaluating Farm System Programs (2 Credits)
- [FBMT2300](#) Computer Applications in Business Management (2 Credits)
- [FBMT2305](#) Legal Issues in Ag (2 Credits)
- [FBMT2310](#) Environmental Interactions in Agriculture (2 Credits)
- [FBMT2315](#) Effective Time Management (2 Credits)
- [FBMT2320](#) Family Wellness and Business Relationships (2 Credits)
- [FBMT2325](#) Ethics in this Business of Agriculture (2 Credits)
- [FBMT2330](#) Business Math Principles (2 Credits)
- [FBMT2335](#) Labor Economics and Management (2 Credits)
- [FBMT2340](#) Rural Leadership (2 Credits)
- [FBMT2345](#) CPR and First Aid (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Geographic Information Systems Certificate • 16 Credits

CERT3481

---

### Degree Description

The Geographic Information System certificate focuses on extended learning of GIS applications within the civil engineering environment. Students in this certificate program will acquire skills required by hiring agencies, which includes collection, management and analysis of spatial data, creation of maps, as well as GIS data development and management for web applications.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Geographic Information Systems department. [See the Geographic Information Systems department page for more details](#)

### Required Technical Courses (3 Courses)

Complete the following courses:

[GIS 2840](#) Introduction to Geographic Information Systems (4 Credits)

[GIS 2841](#) Intermediate GIS (4 Credits)

And

[GIS 2842](#) Field Mapping with GPS (4 Credits)

Or

[GIS 2845](#) Introduction to Remote Sensing (4 Credits)

### Elective Credits - Choose 4 credits from the following: (4 Credits)

[GIS 2843](#) GIS Practicum (2 - 4 Credits)

[GIS 2844](#) GIS Internship (2 - 4 Credits)

[CAP 250](#) Associate of Arts Capstone Class (1 Credit)

[FYE 100](#) First Year Experience (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Graphic Communications

A.A.S. Degree • 72 Credits

AAS 3493

### Degree Description

Through the Graphic Communications program, learners will develop the creative side of themselves while carrying out their creativity in an actual production setting. The program offers training and instruction for learners interested in graphic design, graphic production, web design and animation media. Introductory and advanced levels of illustration, layout and design, typography and product photography are also taught. Learners will learn how to prepare their work for production with classes in work flow, printing processes and web page design. Students receive hands-on training using the latest Adobe Creative Suite, which includes Photoshop, Illustrator, InDesign, Dreamweaver, Flash and Acrobat.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Graphic Communications department. [See the Graphic Communications department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [GCC 1100](#) Introduction to Graphic Communications (4 Credits)
- [GCC 1120](#) Graphic Software 1 (4 Credits)
- [GCC 1130](#) Layout and Typography (3 Credits)
- [GCC 1141](#) Digital Image Exploration (3 Credits)
- [GCC 1210](#) Drawing for Graphic Designers (3 Credits)
- [GCC 1220](#) Graphic Software 2 (4 Credits)
- [GCC 1260](#) Printing Processes (4 Credits)
- [GCC 2110](#) Design and Illustration 1 (4 Credits)
- [GCC 2120](#) Portfolio 1 (3 Credits)
- [GCC 2150](#) Web/Interactive Media 2 (3 Credits)
- [GCC 2161](#) Production Work Flow 1 (3 Credits)
- [GCC 2210](#) Design and Illustration 2 (4 Credits)
- [GCC 2220](#) Portfolio 2 (3 Credits)
- [GCC 2250](#) Web/Interactive Media 3 (3 Credits)
- [GCC 2261](#) Production Work Flow 2 (3 Credits)
- [COMP1140](#) Web for Business (3 Credits)

### Required Liberal Arts and Sciences (3 Courses)

To complete an AAS Degree, students must complete 18 MnTC credits from 3 of the 10 MnTC goal areas.

Select the following courses:

- [ENGL100](#) Composition (4 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- Or
- [COMM110](#) Public Speaking (3 Credits)
- [ART 110](#) Art Structure (3 Credits)
- Or
- [ART 130](#) Painting (3 Credits)
- Or
- [ART 140](#) Digital Photography (3 Credits)

### Technical Courses (Optional)

The following courses are not required but are optional courses which may be beneficial to you in this career field. You will graduate from this program even if you do not complete these courses.

- [GCC 2275](#) Special Problems (1 - 4 Credits)
- [GCC 2290](#) Graphic Communications Internship (1 - 3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Liberal Arts and Sciences

Select 8 additional MnTC credits from goals 1 - 10.

The following courses are recommended: PSYC100, SOC100, ART100, ART110, ENGL130, PHIL100 and PHIL 215.

## Graphic Communications

Diploma • 60 Credits

DIP 3494

---

### Degree Description

Through the Graphic Communications program, learners will develop the creative side of themselves while carrying out their creativity in an actual production setting. The program offers training and instruction for learners interested in graphic design, graphic production, web design and animation media. Introductory and advanced levels of illustration, layout and design, typography and product photography are also taught. Students will learn how to prepare their work for production with classes in work flow, printing processes and web page design. Learners receive hands-on training using the latest Adobe Creative Suite, which includes Photoshop, Illustrator, InDesign, Dreamweaver, Flash and Acrobat.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Graphic Communications department. [See the Graphic Communications department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [GCC 1100](#) Introduction to Graphic Communications (4 Credits)
- [GCC 1120](#) Graphic Software 1 (4 Credits)
- [GCC 1130](#) Layout and Typography (3 Credits)
- [GCC 1141](#) Digital Image Exploration (3 Credits)
- [GCC 1210](#) Drawing for Graphic Designers (3 Credits)
- [GCC 1220](#) Graphic Software 2 (4 Credits)
- [GCC 1260](#) Printing Processes (4 Credits)
- [GCC 2110](#) Design and Illustration 1 (4 Credits)
- [GCC 2120](#) Portfolio 1 (3 Credits)
- [GCC 2150](#) Web/Interactive Media 2 (3 Credits)
- [GCC 2161](#) Production Work Flow 1 (3 Credits)
- [GCC 2210](#) Design and Illustration 2 (4 Credits)
- [GCC 2220](#) Portfolio 2 (3 Credits)
- [GCC 2250](#) Web/Interactive Media 3 (3 Credits)
- [GCC 2261](#) Production Work Flow 2 (3 Credits)
- [COMP1140](#) Web for Business (3 Credits)

### Technical Courses (Optional)

The following courses are not required but are optional courses which may be beneficial to you in this career field. You will graduate from this program even if you do not complete these courses.

- [GCC 2275](#) Special Problems (1 - 4 Credits)
- [GCC 2290](#) Graphic Communications Internship (1 - 3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts & Sciences (2 Courses)

Complete the following courses:

- [COMM140](#) Interpersonal Communication (3 Credits)
- Or
- [COMM110](#) Public Speaking (3 Credits)
  
- [ART 110](#) Art Structure (3 Credits)
- Or
- [ART 130](#) Painting (3 Credits)
- Or
- [ART 140](#) Digital Photography (3 Credits)



## 2015-2016 PROGRAMS OF STUDY

### Health Sciences Broad Field

A.S. Degree • 60 Credits

AS 2366/AS 3366

#### Degree Description

This degree includes instruction in the basic sciences and aspects of the subject matter related to various health occupations.

#### Admission Dates: Fall and Spring Semester

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Health Science Broad Field department. [See the Health Science Broad Field department page for more details](#)

#### Required Courses (14 Courses )

Complete the following courses:

- [BIOL100](#) Introduction to Biology (4 Credits)
- [BIOL225](#) Anatomy and Physiology I (4 Credits)
- [BIOL235](#) Anatomy and Physiology II (4 Credits)
- [BIOL270](#) Microbiology (4 Credits)
- [CHEM108](#) Introduction to Chemistry (4 Credits)
- [COMM130](#) Intercultural Communication (3 Credits)
- [ENGL100](#) Composition (4 Credits)
- [FCS 105](#) Nutrition and Healthy Living (3 Credits)
- [MATH120](#) College Algebra (4 Credits)
- [MATH154](#) Elementary Statistics (4 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)
- [PSYC100](#) Introduction to Psychology (4 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)
- [SOC101](#) Introduction to Sociology (4 Credits)

#### Elective Credits (8 Credits )

Chosen based on selected baccalaureate degree program. Courses should be selected in consultation with advisor/faculty. You must complete enough elective credits (8) to total 60 credits in your program.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Health Unit Coordinator Certificate • 16 Credits

CERT3313

---

### Degree Description

Our classes emphasize the importance of effective communication skills both in person and by phone with clients/patients, visitors, health care team members and ancillary departments. Courses have been developed based on industry standards and the learner is prepared to work in a variety of health care environments. Experienced instructors offer plenty of personal attention to each learner. This program will also help prepare you for the National Association of Health Unit Coordinators certification exam.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Health Unit Coordinator department. [See the Health Unit Coordinator department page for more details](#)

### Required Technical Courses (6 Courses)

Complete all of the following courses:

[HUCF1200](#) Health Unit Coordinator Fundamentals (2 Credits)

[HUCF1201](#) Health Unit Coordinator Procedures (3 Credits)

[HC 1000](#) Medical Terminology (3 Credits)

[HC 1500](#) Healthcare Foundation: Introduction to Health Careers  
(1 - 3 Credits)

[HC 1550](#) Electronic Health Records (2 Credits)

[MA 1020](#) Medical Office Procedures (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Heating, Ventilation, Air Conditioning/Refrigeration

A.A.S. Degree • 72 Credits

AAS 3456

### Degree Description

Trained, highly skilled personnel are needed for the exciting new technological demands of the residential/commercial heating, ventilation, air conditioning and refrigeration industry. Independent and critical thinking men and women instilled with troubleshooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC is designed to prepare these individuals for entry-level positions in the HVAC/R field. To participate in the program, individuals should have a strong mechanical aptitude, strong math skills and enjoy problem solving.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Heating Ventilation Air Conditioning and Refrigeration department. [See the Heating Ventilation Air Conditioning and Refrigeration department page for more details](#)

### Required Technical Courses: (16 Courses)

Complete all of the following courses:

- [HVAC2000](#) Electrical Circuits (2 Credits)
- [HVAC2010](#) IPH Motors and Auxiliary Controls (2 Credits)
- [HVAC2100](#) Refrigeration Theory (2 Credits)
- [HVAC2110](#) Refrigeration Controls (2 Credits)
- [HVAC2120](#) Testing Refrigeration Systems (2 Credits)
- [HVAC2205](#) Coolers/Freezers Electrical Systems & Components (3 Credits)
- [HVAC2215](#) Coolers/Freezers Refrigeration Diagnostics & Operations (3 Credits)
- [HVAC2220](#) Commercial Ice Makers (3 Credits)
- [HVAC2230](#) Commercial Alternative Systems (1 Credit)
- [HVAC2240](#) Central Air Conditioning (2 Credits)
- [HVAC2251](#) Brazing (2 Credits)
- [HVAC2301](#) Indoor Air Quality (1 Credit)
- [HVAC2310](#) Hydronic Heat (2 Credits)
- [HVAC2320](#) Gas Heat (3 Credits)
- [HVAC2325](#) Commercial Package Heat/Cool Units (2 Credits)
- [HVAC2340](#) Sheet Metal Ductwork Fabrication (3 Credits)

### Other Elective Credits (3 Credits)

Technical Courses- Select three credits from any technical courses in consultation with advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Technical Electives (19 Credits)

Complete 19 credits from the following courses:

- [HLTH1950](#) CPR (1 Credit)
- [HVAC2410](#) Advanced Central Air Conditioning Lab II (2 Credits)
- [HVAC2420](#) Air Conditioning Internship I (1 Credit)
- [HVAC2430](#) Air Conditioning Internship II (2 Credits)
- [HVAC2440](#) Advanced Refrigeration Lab I (1 Credit)
- [HVAC2450](#) Advanced Refrigeration Lab II (2 Credits)
- [HVAC2460](#) Refrigeration Internship I (1 Credit)
- [HVAC2470](#) Refrigeration Internship II (2 Credits)
- [HVAC2500](#) Advance Heating Lab I (1 Credit)
- [HVAC2510](#) Advanced Heating Lab II (2 Credits)
- [HVAC2520](#) Heating Internship I (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)
- [HVAC2530](#) Heating Internship II (2 Credits)
- [HLTH1954](#) Safety (1 Credit)
- [MKT 1800](#) Introduction to Sales (3 Credits)
- [OTEC2000](#) Employment Search Skills (2 Credits)
- [HVAC1000](#) Alternative Refrigeration Systems Lab I (1 Credit)
- [HVAC1200](#) Alternative Refrigeration Systems Lab II (2 Credits)
- [HVAC2330](#) Alternative Heating Systems (2 Credits)
- [HVAC2400](#) Advance Central A/C Lab 1 (1 Credit)

### Required Liberal Arts and Sciences

To complete an AAS Degree, students must complete 15 MnTC credits from 3 of the 10 MnTC Goal Areas.

## Heating, Ventilation, Air Cond/Refrig Diploma • 44 Credits

DIP 3483

### Degree Description

Trained, highly skilled personnel are needed for the exciting new technological demands of the residential/commercial heating, ventilation, air conditioning and refrigeration industry. Independent and critical thinking men and women instilled with troubleshooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC is designed to prepare these individuals for entry-level positions in the HVAC/R field. To participate in the program, individuals should have a strong mechanical aptitude, strong math skills and enjoy problem solving.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Heating Ventilation Air Conditioning and Refrigeration department. [See the Heating Ventilation Air Conditioning and Refrigeration department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [HVAC2000](#) Electrical Circuits (2 Credits)
- [HVAC2010](#) IPH Motors and Auxiliary Controls (2 Credits)
- [HVAC2100](#) Refrigeration Theory (2 Credits)
- [HVAC2110](#) Refrigeration Controls (2 Credits)
- [HVAC2120](#) Testing Refrigeration Systems (2 Credits)
- [HVAC2205](#) Coolers/Freezers Electrical Systems & Components (3 Credits)
- [HVAC2215](#) Coolers/Freezers Refrigeration Diagnostics & Operations (3 Credits)
- [HVAC2220](#) Commercial Ice Makers (3 Credits)
- [HVAC2230](#) Commercial Alternative Systems (1 Credit)
- [HVAC2240](#) Central Air Conditioning (2 Credits)
- [HVAC2251](#) Brazing (2 Credits)
- [HVAC2301](#) Indoor Air Quality (1 Credit)
- [HVAC2310](#) Hydronic Heat (2 Credits)
- [HVAC2320](#) Gas Heat (3 Credits)
- [HVAC2325](#) Commercial Package Heat/Cool Units (2 Credits)
- [HVAC2340](#) Sheet Metal Ductwork Fabrication (3 Credits)

### Elective Credits (9 Credits)

Technical Courses - Select 9 credits from any HVAC course or MKT 1800.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Heating, Ventilation, Air Conditioning/Refrigeration Diploma • 60 Credits

DIP 3472

### Degree Description

Trained, highly skilled personnel are needed for the exciting new technological demands of the residential/commercial heating, ventilation, air conditioning and refrigeration industry. Independent and critical thinking men and women instilled with troubleshooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC is designed to prepare these individuals for entry-level positions in the HVAC/R field. To participate in the program, individuals should have a strong mechanical aptitude, strong math skills and enjoy problem solving.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Heating Ventilation Air Conditioning and Refrigeration department. [See the Heating Ventilation Air Conditioning and Refrigeration department page for more details](#)

### Required Technical Courses (16 Courses)

Complete the following courses:

- [HVAC2000](#) Electrical Circuits (2 Credits)
- [HVAC2010](#) IPH Motors and Auxiliary Controls (2 Credits)
- [HVAC2100](#) Refrigeration Theory (2 Credits)
- [HVAC2110](#) Refrigeration Controls (2 Credits)
- [HVAC2120](#) Testing Refrigeration Systems (2 Credits)
- [HVAC2205](#) Coolers/Freezers Electrical Systems & Components (3 Credits)
- [HVAC2215](#) Coolers/Freezers Refrigeration Diagnostics & Operations (3 Credits)
- [HVAC2220](#) Commercial Ice Makers (3 Credits)
- [HVAC2230](#) Commercial Alternative Systems (1 Credit)
- [HVAC2240](#) Central Air Conditioning (2 Credits)
- [HVAC2251](#) Brazing (2 Credits)
- [HVAC2301](#) Indoor Air Quality (1 Credit)
- [HVAC2310](#) Hydronic Heat (2 Credits)
- [HVAC2320](#) Gas Heat (3 Credits)
- [HVAC2325](#) Commercial Package Heat/Cool Units (2 Credits)
- [HVAC2340](#) Sheet Metal Ductwork Fabrication (3 Credits)

### Required Liberal Arts and Sciences (6 Credits)

To complete the Advanced Diploma, students must complete 6 MnTC credits from 2 of the 10 MnTC goal areas.

### Technical Electives (19 Credits)

Complete 19 credits from the following courses:

- [HLTH1950](#) CPR (1 Credit)
- [HVAC2410](#) Advanced Central Air Conditioning Lab II (2 Credits)
- [HVAC2420](#) Air Conditioning Internship I (1 Credit)
- [HVAC2430](#) Air Conditioning Internship II (2 Credits)
- [HVAC2440](#) Advanced Refrigeration Lab I (1 Credit)
- [HVAC2450](#) Advanced Refrigeration Lab II (2 Credits)
- [HVAC2460](#) Refrigeration Internship I (1 Credit)
- [HVAC2470](#) Refrigeration Internship II (2 Credits)
- [HVAC2500](#) Advance Heating Lab I (1 Credit)
- [HVAC2510](#) Advanced Heating Lab II (2 Credits)
- [HVAC2520](#) Heating Internship I (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)
- [HVAC2530](#) Heating Internship II (2 Credits)
- [HLTH1954](#) Safety (1 Credit)
- [MKT 1800](#) Introduction to Sales (3 Credits)
- [OTEC2000](#) Employment Search Skills (2 Credits)
- [HVAC1000](#) Alternative Refrigeration Systems Lab I (1 Credit)
- [HVAC1200](#) Alternative Refrigeration Systems Lab II (2 Credits)
- [HVAC2330](#) Alternative Heating Systems (2 Credits)
- [HVAC2400](#) Advance Central A/C Lab 1 (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Heating, Vent., Air Cond./Refrigeration (Refrigeration Cert) Certificate • 26 Credits

CERT3461

---

### Degree Description

Trained, highly skilled personnel are needed for the exciting new technological demands of the residential/commercial heating, ventilation, air conditioning and refrigeration industry. Independent and critical thinking men and women instilled with troubleshooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC is designed to prepare these individuals for entry-level positions in the HVAC/R field. To participate in the program, individuals should have a strong mechanical aptitude, strong math skills and enjoy problem solving.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Heating Ventilation Air Conditioning and Refrigeration department. [See the Heating Ventilation Air Conditioning and Refrigeration department page for more details](#)

### Required Technical Courses (12 Courses)

Complete the following courses:

- [HVAC2000](#) Electrical Circuits (2 Credits)
- [HVAC2010](#) IPH Motors and Auxiliary Controls (2 Credits)
- [HVAC2100](#) Refrigeration Theory (2 Credits)
- [HVAC2110](#) Refrigeration Controls (2 Credits)
- [HVAC2120](#) Testing Refrigeration Systems (2 Credits)
- [HVAC2205](#) Coolers/Freezers Electrical Systems & Components (3 Credits)
- [HVAC2215](#) Coolers/Freezers Refrigeration Diagnostics & Operations (3 Credits)
- [HVAC2220](#) Commercial Ice Makers (3 Credits)
- [HVAC2230](#) Commercial Alternative Systems (1 Credit)
- [HVAC2240](#) Central Air Conditioning (2 Credits)
- [HVAC2251](#) Brazing (2 Credits)
- [HVAC2325](#) Commercial Package Heat/Cool Units (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Heating, Ventilation, Air Cond/Refrigeration (Heating Cert) Certificate • 26 Credits

CERT3460

### Degree Description

Trained, highly skilled personnel are needed for the exciting new technological demands of the residential/commercial heating, ventilation, air conditioning and refrigeration industry. Independent and critical thinking men and women instilled with troubleshooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC is designed to prepare these individuals for entry-level positions in the HVAC/R field. To participate in the program, individuals should have a strong mechanical aptitude, strong math skills and enjoy problem solving.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Heating Ventilation Air Conditioning and Refrigeration department. [See the Heating Ventilation Air Conditioning and Refrigeration department page for more details](#)

### Required Technical Courses (7 Courses)

Complete the following courses:

- [HVAC2000](#) Electrical Circuits (2 Credits)
- [HVAC2010](#) IPH Motors and Auxiliary Controls (2 Credits)
- [HVAC2301](#) Indoor Air Quality (1 Credit)
- [HVAC2310](#) Hydronic Heat (2 Credits)
- [HVAC2320](#) Gas Heat (3 Credits)
- [HVAC2325](#) Commercial Package Heat/Cool Units (2 Credits)
- [HVAC2340](#) Sheet Metal Ductwork Fabrication (3 Credits)

### Technical Electives (11 Credits)

Complete 11 credits from the following courses:

- [HLTH1950](#) CPR (1 Credit)
- [HLTH1952](#) First Aid (1 Credit)
- [HLTH1954](#) Safety (1 Credit)
- [OTEC2000](#) Employment Search Skills (2 Credits)
- [HVAC2330](#) Alternative Heating Systems (2 Credits)
- [HVAC2500](#) Advance Heating Lab I (1 Credit)
- [HVAC2510](#) Advanced Heating Lab II (2 Credits)
- [HVAC2520](#) Heating Internship I (1 Credit)
- [HVAC2530](#) Heating Internship II (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Intensive Care Paramedic Technician

A.A.S. Degree • 67 Credits

AAS 3311

---

### Degree Description

As the most highly trained pre-hospital emergency care provider in the EMS field, the paramedic accepts the challenging responsibility for patient care. A willingness to accept this challenge and direct others to carry out treatment plans is the first step in becoming a paramedic. Paramedicine is a relatively young field with a wide range of employment opportunities, including ambulance services, fire departments, police departments, hospitals, helicopter services and educational institutions. The program is fully accredited by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professionals.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Intensive Care Paramedic Technician department. [See the Intensive Care Paramedic Technician department page for more details](#)

### Required Technical Courses (15 Courses)

Complete the following courses:

- [ICP 1000](#) Introduction to Paramedicine (3 Credits)
- [ICP 1005](#) Applied Anatomy and Physiology for EMS (3 Credits)
- [ICP 1010](#) EMS Skills (5 Credits)
- [ICP 1020](#) Pharmacology for EMS (3 Credits)
- [ICP 1040](#) Cardiac Care in EMS (4 Credits)
- [ICP 1050](#) Trauma Care (3 Credits)
- [ICP 1060](#) Pathophysiology in EMS (5 Credits)
- [ICP 2010](#) EMS Advanced Skills (5 Credits)
- [ICP 2030](#) Critical Care I (3 Credits)
- [ICP 2040](#) Critical Care II (3 Credits)
- [ICP 2050](#) Field Internship I (3 Credits)
- [ICP 2060](#) Field Internship II (3 Credits)
- [ICP 2070](#) Special Populations (5 Credits)
- [ICP 2080](#) Paramedic Refresher (3 Credits)
- [ICP 2090](#) Hazardous Materials (1 Credit)

### Required Liberal Arts & Sciences

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Intensive Care Paramedic Technician Diploma • 58 Credits

DIP 3310

---

### Degree Description

As the most highly trained pre-hospital emergency care provider in the EMS field, the paramedic accepts the challenging responsibility for patient care. A willingness to accept this challenge and direct others to carry out treatment plans is the first step in becoming a paramedic. Paramedicine is a relatively young field with a wide range of employment opportunities, including ambulance services, fire departments, police departments, hospitals, helicopter services and educational institutions. The program is fully accredited by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professionals.

### Admission Dates: Fall Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Intensive Care Paramedic Technician department. [See the Intensive Care Paramedic Technician department page for more details](#)

### Required Technical Courses (15 Courses)

Complete the following classes:

- [ICP 1000](#) Introduction to Paramedicine (3 Credits)
- [ICP 1005](#) Applied Anatomy and Physiology for EMS (3 Credits)
- [ICP 1010](#) EMS Skills (5 Credits)
- [ICP 1020](#) Pharmacology for EMS (3 Credits)
- [ICP 1040](#) Cardiac Care in EMS (4 Credits)
- [ICP 1050](#) Trauma Care (3 Credits)
- [ICP 1060](#) Pathophysiology in EMS (5 Credits)
- [ICP 2010](#) EMS Advanced Skills (5 Credits)
- [ICP 2030](#) Critical Care I (3 Credits)
- [ICP 2040](#) Critical Care II (3 Credits)
- [ICP 2050](#) Field Internship I (3 Credits)
- [ICP 2060](#) Field Internship II (3 Credits)
- [ICP 2070](#) Special Populations (5 Credits)
- [ICP 2080](#) Paramedic Refresher (3 Credits)
- [ICP 2090](#) Hazardous Materials (1 Credit)

### Required Liberal Arts and Sciences (6 Credits)

Complete 6 credits from any of the 10 MNTC Goal Areas.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Community Paramedic Certificate • 12 Credits

CERT3325

---

### Degree Description

The Community Paramedic program responds to identified health needs in underserved communities, ultimately improving the quality of life and health of rural and remote citizens and visitors. The program seeks to prepare learners for roles that include the following: outreach, wellness, health screening assessments, health teaching, providing immunizations, wound care, recognition of mental health issues, and referral into the existing mental health care systems, and functioning as physician extenders in rural clinics and hospitals. Community Paramedic learners will also receive instruction in disease management, including a thorough understanding of monitoring diabetes, congestive heart failure and other high-cost diseases, and the methods and medications used to treat them.

### NOTE:

Students must be admitted to the Community Paramedic program by following a defined application process. Requirements for admittance include: current certification as an Emergency Medical Technician Paramedic (EMT-P) and a record of at least two years of full time service as an EMT-P or the part time equivalent.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Intensive Care Paramedic Technician department. [See the Intensive Care Paramedic Technician department page for more details](#)

### Required Technical Courses (4 Courses)

Select the following courses:

- [CP 2500](#) Roles Advocacy and Outreach (2 Credits)
- [CP 2505](#) Community Assessment (2 Credits)
- [CP 2510](#) Care and Prevention Development Strategies (3 Credits)
- [CP 2520](#) Community Paramedic Clinical (5 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Liberal Arts & Sciences Department Overview

---

### Mission of Liberal Arts & Sciences

The Mission of South Central College Associate in Arts Department is to broaden the awareness, knowledge, skills, attitudes, and values of students to be successful in life and work.

### Philosophy of the Associate in Arts Department

*Students:* We believe that the individual learner has intrinsic worth, the ability to learn, and the need to learn. Learners are active agents in the process of developing professional and personal competence, and faculty work to help learners assume responsible roles in life. At SCC we honor diversity among students; we believe diversity is part of what contributes to a strong society and a true democracy.

*Students and Faculty:* We believe in the importance of continual and life-long learning among the learners and the practitioners of Liberal Arts & Sciences. Faculty members continue their intellectual and professional growth through professional advancement activities, including discipline-specific conferences and workshops.

*Program:* The Associate in Arts program offerings at SCC are regularly reviewed and challenged for relevance and validity. We believe that the Associate in Arts program provides essential life skills, prepares 4-year bound students for transfer, and enhances technical education by exposing students to a broader perspective beyond their core field of study.

### Values of Associate in Arts Department

- Individuality and diversity of learners
- Partnership of students and faculty in the learning community
- Life-long learning
- Continuous assessment and improvement of student learning, instructional techniques, and program services
- Integration of knowledge through collaboration with colleagues in the technical programs and colleagues at other educational institutions
- Service to the community of SCC and the world beyond

### AA Concentration Options

South Central College has developed several concentrations to help you focus your liberal arts education while at our college. A concentration in the Associate in Arts (A.A.) degree allows you to meet the requirement of the A.A., meet transfer requirements, and focus on a particular academic discipline. While the concentration might not meet all the first two years of requirements for a baccalaureate degree in the discipline, it will prepare you for the upper division study in the field. And, you get to focus on the topic you are interested in.

These concentrations include:

- Communication
- English
- Fine Arts
- History
- Psychology

Please see your advisor for additional information about the AA concentrations.

### Liberal Arts & Sciences Degrees

Associate of Arts

**Faribault Campus**  
1225 Third Street SW  
Faribault, MN 55021  
Local: 507-332-5800  
Toll Free: 800-422-0391

**North Mankato Campus**  
1920 Lee Boulevard  
North Mankato, MN 56003  
Local: 507-389-7200  
Toll Free: 800-722-9359

**South Central Online**  
Web: [online.southcentral.edu](http://online.southcentral.edu)  
Email: [online@southcentral.edu](mailto:online@southcentral.edu)  
Login: Desire2Learn



## 2015-2016 PROGRAMS OF STUDY

### **Manufacturing Production Technology** Certificate • 17 Credits

CERT3286/ CERT2259

---

#### Degree Description

This entry-level certificate introduces students to production technologies and information to start on a manufacturing career pathway. Additionally, students are given opportunities to enhance or develop important work-place knowledge and skills in the areas of communication, math, and physics.

#### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Manufacturing Production Technology department. [See the Manufacturing Production Technology department page for more details](#)

#### **Required Technical Courses (5 Courses)**

Complete all of the following courses:

- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

#### **Required Liberal Arts and Sciences (2 Courses)**

Choose from the following courses:

- [PHYS101](#) Introductory Physics (3 Credits)
- [COMM120](#) Small Group Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Marketing Management

A.A.S. Degree • 60 Credits

AAS 3272/AAS 2284

### Degree Description

The Associate of Applied Science Marketing Management degree is designed to prepare individuals for employment in marketing, sales management, and retail management fields. Learners will learn current practices and acquire knowledge in marketing fundamentals, management, sales, retail operations, managing human resources, sales force management, managing a sales business for profitability and new applications in the art of selling. Learners are required to participate in a business and industry internship in positions including customer service, sales, retailing, marketing and advertising to reinforce newly acquired skills. In addition, the program requires Liberal Arts & Sciences courses designed to provide an understanding of the culture and environment in which we live. Advisors will work with students in developing a program of study, encouraging timely program completion. After completing an A.A.S. Degree in Marketing, graduates can transfer their program credits toward a Bachelor of Applied Science Degree in Marketing from Southwest Minnesota State University. Courses are offered at South Central via ITV, and online. See an advisor for program requirements.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Marketing Management department. [See the Marketing Management department page for more details](#)

### Required Technical Courses (11 Courses)

Complete all of the following courses:

- [MKT 1800](#) Introduction to Sales (3 Credits)
- [MKT 1810](#) Principles of Marketing (3 Credits)
- [MKT 1820](#) Introduction to Business (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)
- [MKT 1840](#) Principles of Advertising (3 Credits)
- [MKT 1850](#) Professional Development I (1 Credit)
- [MKT 1900](#) Principles of Management (3 Credits)
- [MKT 1910](#) Entrepreneurship (3 Credits)
- [MKT 1920](#) Marketing Research (3 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
- [MKT 1940](#) Leadership Strategies (3 Credits)

### Marketing Internship (6 Credits)

You must complete 6 credits of internship from the following:

- [MKT 1817](#) Internship (3 Credits)
- [MKT 2817](#) Internship (3 Credits)
- [MKT 2827](#) Marketing Management Internship (1 - 3 Credits)

### Required Liberal Arts & Sciences (2 Courses)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas. Courses must be approved by advisor/faculty.

The following two courses are required:

- [COMM110](#) Public Speaking (3 Credits)
- [ENGL100](#) Composition (4 Credits)

### Management Core (2 Courses)

Select the following two courses:

- [MGT 2810](#) Retail Management (3 Credits)
- [MGT 2820](#) Introduction to Management Information Systems (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Technical Elective Credits (2 Credits)

Complete 2 additional credits from the following:

- [MKT 1860](#) Marketing and Business Management Practicum (2 Credits)
- [MKT 1875](#) Internet Marketing (2 Credits)
- [MKT 1950](#) Special Topics in Marketing (2 Credits)
- [MKT 2827](#) Marketing Management Internship (1 - 3 Credits)

## Marketing Management Diploma • 53 Credits

DIP 3273

### Degree Description

The Marketing Management Diploma is designed to prepare individuals for employment in sales and marketing related positions requiring entry-level skills and knowledge necessary to perform typical job functions. Individuals seeking opportunities to upgrade present skills will also benefit from the diploma. Courses will cover the fundamentals of marketing, management, sales, retail operations, managing human resources, the art of selling, and entrepreneurship. Business and industry internships are required, with positions concentrating in a variety of areas including sales, customer service, retailing, advertising, and marketing. Liberal Arts & Sciences courses in public speaking and composition are required. Academic advisors will assist learners in choosing additional coursework for the diploma.

### Admission Dates: Fall and Spring Semester

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Marketing Management department. [See the Marketing Management department page for more details](#)

### Required Technical Courses (15 Courses)

Complete all of the following courses:

- [MGT 2810](#) Retail Management (3 Credits)
- [MGT 2820](#) Introduction to Management Information Systems (3 Credits)
- [MKT 1800](#) Introduction to Sales (3 Credits)
- [MKT 1810](#) Principles of Marketing (3 Credits)
- [MKT 1817](#) Internship (3 Credits)
- [MKT 1820](#) Introduction to Business (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)
- [MKT 1840](#) Principles of Advertising (3 Credits)
- [MKT 1850](#) Professional Development I (1 Credit)
- [MKT 1900](#) Principles of Management (3 Credits)
- [MKT 1910](#) Entrepreneurship (3 Credits)
- [MKT 1920](#) Marketing Research (3 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
- [MKT 1940](#) Leadership Strategies (3 Credits)
- [MKT 2817](#) Internship (3 Credits)

### Required Liberal Arts and Sciences (2 Courses)

Complete the following courses:

- [COMM110](#) Public Speaking (3 Credits)
- [ENGL100](#) Composition (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Elective Credits (3 Credits)

Complete 3 additional credits from any MGT, MKT, ACCT, OTEC, COMP or Liberal Arts and Sciences courses. Courses must be approved by advisor/faculty.

## Marketing Management Certificate • 30 Credits

CERT3274

### Degree Description

The Marketing Management Certificate is designed to provide skills for those individuals wishing to complete a compressed program of study with specific skills unique to their individual needs. With advisor approval, learners will develop a program of study consisting of 18 credits of technical courses and 12 credits of core management courses. Learners are encouraged to complete an internship, providing experience in the world of work.

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Marketing Management department. [See the Marketing Management department page for more details](#)

### Required Technical Courses (4 Courses)

Complete all of the following courses

- [MKT 1810](#) Principles of Marketing (3 Credits)
- [MKT 1820](#) Introduction to Business (3 Credits)
- [MGT 2810](#) Retail Management (3 Credits)
- [MGT 2820](#) Introduction to Management Information Systems (3 Credits)

### Elective Credits (18 Credits)

Choose 18 credits from the following courses:

- [MKT 1800](#) Introduction to Sales (3 Credits)
- [MKT 1817](#) Internship (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)
- [MKT 1840](#) Principles of Advertising (3 Credits)
- [MKT 1850](#) Professional Development I (1 Credit)
- [MKT 1900](#) Principles of Management (3 Credits)
- [MKT 1910](#) Entrepreneurship (3 Credits)
- [MKT 1920](#) Marketing Research (3 Credits)
- [MKT 1930](#) Human Resource Management (3 Credits)
- [MKT 1940](#) Leadership Strategies (3 Credits)
- [MKT 2817](#) Internship (3 Credits)
- [MKT 2827](#) Marketing Management Internship (1 - 3 Credits)
- [OTEC2810](#) Computer Technology (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Mechatronics Engineering Technology

A.A.S. Degree • 60 Credits

AAS 3470

---

### Degree Description

Mechatronics is a relatively new and rapidly growing field that integrates electronics, mechanics, pneumatics, hydraulics, and computer control systems to create new and improved automated manufacturing production systems. This program is designed for people who are interested in plant maintenance, set up, installation, and assembly. These jobs are found in medical, electronics, agriculture, biotechnology, and automotive industries.

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Mechatronics Engineering Technology department. [See the Mechatronics Engineering Technology department page for more details](#)

### Required Technical Courses (16 Courses )

Select the following courses:

- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [MECA1122](#) Electricity - Devices and Circuits I (3 Credits)
- [MECA1222](#) Electricity - Devices and Circuits II (3 Credits)
- [MECA1223](#) Mechanical Systems 1 (3 Credits)
- [MECA1250](#) Mechatronics Systems Operations I (3 Credits)
- [MECA2110](#) Sensors and Control (3 Credits)
- [MECA2120](#) Fluid Power 1 (3 Credits)
- [MECA2123](#) Mechanical Systems 2 (3 Credits)
- [MECA2130](#) Fluid Power II (3 Credits)
- [MECA2150](#) Mechatronics Systems Operations II (3 Credits)
- [MECA2235](#) Robotics (3 Credits)
- [MECA2240](#) Senior Project (1 - 5 Credits)
- [MECA2250](#) Mechatronics Systems Operations III (3 Credits)

### Required Liberal Arts and Sciences (4 Courses )

To earn an AAS degree, students must complete 15 MNTC credits in 3 of the 10 MNTC goal areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [ENGL240](#) Technical Communication (4 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)
- [MATH120](#) College Algebra (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Intermediate Mechatronics Engineering Technology Diploma • 39 Credits

DIP 3485/DIP2477

### Degree Description

Mechatronics is a relatively new and rapidly growing field that integrates electronics, mechanics, pneumatics, hydraulics, and computer control systems to create new and improved automated manufacturing production systems. This program is designed for people who are interested in plant maintenance, set up, installation, and assembly. These jobs are found in medical, electronics, agriculture, biotechnology, and automotive industries.

**Admission Dates: Fall and Spring Semester**

### Offered on the Faribault and North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Mechatronics Engineering Technology department. [See the Mechatronics Engineering Technology department page for more details](#)

### Required Technical Courses (12 Courses )

Complete the following courses:

- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [MECA1122](#) Electricity - Devices and Circuits I (3 Credits)
- [MECA1222](#) Electricity - Devices and Circuits II (3 Credits)
- [MECA1223](#) Mechanical Systems 1 (3 Credits)
- [MECA1250](#) Mechatronics Systems Operations I (3 Credits)
- [MECA2120](#) Fluid Power 1 (3 Credits)
- [MECA2123](#) Mechanical Systems 2 (3 Credits)
- [MECA2130](#) Fluid Power II (3 Credits)
- [MECA2150](#) Mechatronics Systems Operations II (3 Credits)

### Required Liberal Arts and Sciences (2 Courses )

Complete the following courses:

- [MATH120](#) College Algebra (4 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## 2015-2016 PROGRAMS OF STUDY

### **Mechatronics Industrial Maintenance**

Certificate • 25 Credits

CERT3603/CERT2493

---

#### Degree Description

This certificate is designed to prepare learners to enter the Industrial Maintenance field in an entry-level position and to enhance the skills of those already employed in the field. This certificate will allow successful learners to be proficient in many different areas including plant safety, reading technical drawings, mechanical drives, bearings, lubrication, alignment, pneumatics, industrial electricity, motor controls, boilers and welding. This stackable certificate allows a pathway for learners to continue their education in Mechatronics.

**Admission Dates: Fall Semester**

#### **Offered on the Faribault and North Mankato Campus**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Mechatronics Engineering Technology department. [See the Mechatronics Engineering Technology department page for more details](#)

#### **Required Technical Courses (10 Courses )**

Complete the following courses:

[CMAE1518](#) Manufacturing Process and Production (2 Credits)

[CMAE1514](#) Safety Awareness (2 Credits)

[CMAE1526](#) Maintenance Awareness (2 Credits)

[CMAE1522](#) Quality Practices (2 Credits)

[MECA1122](#) Electricity - Devices and Circuits I (3 Credits)

[MECA1223](#) Mechanical Systems 1 (3 Credits)

[MECA1250](#) Mechatronics Systems Operations I (3 Credits)

[MECA2120](#) Fluid Power 1 (3 Credits)

[MECA2240](#) Senior Project (1 - 5 Credits)

[MATH1050](#) Mathematics for Technical Careers (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Medical Assistant

A.A.S. Degree • 60 Credits

AAS 2364/AAS 3364

---

### Degree Description

Medical Assistants are classified as allied health practitioners. They can be found in doctor offices, hospitals, outpatient clinics, ambulatory facilities, and other health care related businesses. The program goal is to prepare competent, entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

### Admission Dates: Fall Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Medical Assistant department. [See the Medical Assistant department page for more details](#)

### Required Technical Courses (15 Courses)

Complete the following courses:

- [HC 1000](#) Medical Terminology (3 Credits)
- [HC 1001](#) Advanced Medical Terminology (3 Credits)
- [HC 1914](#) Anatomy & Physiology/Disease Conditions I (4 Credits)
- [HC 1924](#) Anatomy & Physiology Disease Conditions II (4 Credits)
- [HC 1550](#) Electronic Health Records (2 Credits)
- [HLTH1950](#) CPR (1 Credit)
- [OTEC1001](#) Computer Software for College (2 Credits)
- [MA 1000](#) Medical Assisting Orientation (3 Credits)
- [MA 1020](#) Medical Office Procedures (3 Credits)
- [MA 2000](#) Pharmacology for Medical Assistants (3 Credits)
- [MA 2010](#) Laboratory Skills for Medical Assistants (3 Credits)
- [MA 2015](#) Clinical Skills I (3 Credits)
- [MA 2020](#) Clinical Skills II (3 Credits)
- [MA 2030](#) Radiography Skills for Medical Assistants (3 Credits)
- [MA 2040](#) Medical Assistant Internship (4 Credits)

### Required Liberal Arts and Sciences (5 Courses)

To complete an AAS degree, students must complete 16 MNTC credits from 3 of the 10 MNTC goal areas. Select the following required courses:

- [ENGL100](#) Composition (4 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [HUM 100](#) Critical Thinking (3 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)
- [PHIL150](#) Medical Ethics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Medical Laboratory Technician

A.A.S. Degree • 65 Credits

AAS 2301/AAS 3309

### Degree Description

The Medical Laboratory Technician curriculum includes a combination of general education and support courses, online lectures, face-to-face student laboratory sessions, and placement of students in a hospital or clinic internship experience. The program is considered a "hybrid" program because there are required face-to-face student laboratory sessions in which a student must physically be present on one of SCC's two campuses in order to fulfill the requirements of the student laboratory sessions. Lab work is conducted under the supervision of a certified Clinical Laboratory Scientist. The experience allows the student to apply knowledge learned in the didactic phase in an employment-like setting. Students rotate through all areas of the clinical laboratory gaining experience and practice in basic clinical laboratory techniques, procedures, and phlebotomy.

### Admission Process

Application to the Medical Laboratory Technician program requires a separate application process from admission to the college. Applications for the program are typically due on April 1st for a Fall Semester start. To obtain an application, please visit the MLT program website. Applicants must have completed or be in the process of completing the following sequence of courses with a grade of "C" or higher:

- HC 1000 Medical Terminology (3 credit)
- CHEM108 Introduction to Chemistry (4 credits)
- MDLT1810 Laboratory Techniques and Orientation (3 credits)
- BIOL162 Human Biology (4 credits)

### Admission Dates: Fall Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Medical Laboratory Technician department. [See the Medical Laboratory Technician department page for more details](#)

### Required Technical Courses (13 Courses )

You must complete the following required courses:

- [MDLT1810](#) Laboratory Techniques and Orientation (3 Credits)
- [MDLT1815](#) Hematology I (3 Credits)
- [MDLT1820](#) Coagulation (2 Credits)
- [MDLT1825](#) Urinalysis/Body Fluids (3 Credits)
- [MDLT1830](#) Hematology II (3 Credits)
- [MDLT1835](#) Immunology (2 Credits)
- [MDLT2806](#) Immunohematology I (2 Credits)
- [MDLT2807](#) Immunohematology II (2 Credits)
- [MDLT2811](#) Microbiology I (3 Credits)
- [MDLT2817](#) Chemistry I (4 Credits)
- [MDLT2818](#) Chemistry II (3 Credits)
- [MDLT2821](#) Microbiology II (3 Credits)
- [MDLT2825](#) Clinical Practice & Orientation (1 Credit)

### Other Required Courses (2 Courses )

Applicant must have completed or be in the process of completing the following pre-major courses with a grade of "C" or higher.

- [HC 1000](#) Medical Terminology (3 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)

### Required Liberal Arts and Sciences (4 Courses )

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

- [COMM140](#) Interpersonal Communication (3 Credits)
- Or
- [COMM110](#) Public Speaking (3 Credits)
- [BIOL162](#) Human Biology (4 Credits)
- [CHEM108](#) Introduction to Chemistry (4 Credits)
- Or
- [CHEM110](#) Chemistry for the Health Sciences (4 Credits)
- [PSYC100](#) Introduction to Psychology (4 Credits)
- Or
- [PSYC140](#) Psychology of Positive Adjustment (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Minnesota Transfer Curriculum (MNTC)

### Degree Description

Completing the Minnesota Transfer Curriculum (MnTC) requirement alone satisfies the lower division general education requirement at all Minnesota two and four-year public colleges and universities.

To complete the Minnesota Transfer Curriculum students must:

1. Complete all ten goals.
2. Complete at least 40 college-level credits from courses listed within the ten goal areas MnTC.
3. Earn a cumulative GPA of 2.0 or higher and a 67% completion rate in coursework completed at South Central College.

If a student completes an MNTC goal area at South Central College and transfers to another MnSCU institution, the goal area will also be complete at the receiving institution.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Minnesota Transfer Curriculum (MNTC) department. [See the Minnesota Transfer Curriculum \(MNTC\) department page for more details](#)

#### Goal Area 1 - Oral and Written Communication

The following courses apply to MNTC Goal 1. To complete the goal, students must complete ENGL 100 and one COMM course from COMM 100, 110, 120 or 140.

- [ENGL100](#) Composition (4 Credits)
- [COMM100](#) Introduction to Human Communication (3 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [COMM120](#) Small Group Communication (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [ENGL240](#) Technical Communication (4 Credits)

#### Goal Area 3 - Natural Sciences

The following courses apply to MNTC Goal 3. To complete the goal, students must select at least two courses from two different disciplines.

- [BIOL100](#) Introduction to Biology (4 Credits)
- [BIOL101](#) Introduction to Ecology (4 Credits)
- [BIOL106](#) Introduction to Cell Biology (3 Credits)
- [BIOL110](#) Biology of Disease (3 Credits)
- [BIOL115](#) General Biology I (4 Credits)
- [BIOL116](#) General Biology II (4 Credits)
- [BIOL152](#) Tropical Rain Forest Ecology (4 Credits)
- [BIOL162](#) Human Biology (4 Credits)
- [BIOL220](#) Human Anatomy (4 Credits)
- [BIOL225](#) Anatomy and Physiology I (4 Credits)
- [BIOL230](#) Human Physiology (4 Credits)
- [BIOL235](#) Anatomy and Physiology II (4 Credits)
- [BIOL240](#) Pathophysiology (3 Credits)
- [BIOL270](#) Microbiology (4 Credits)
- [CHEM101](#) The Chemistry of Everything (3 Credits)
- [CHEM108](#) Introduction to Chemistry (4 Credits)
- [CHEM110](#) Chemistry for the Health Sciences (4 Credits)
- [CHEM120](#) Principles of Chemistry I (5 Credits)
- [CHEM121](#) Principles of Chemistry II (5 Credits)
- [CHEM220](#) Organic Chemistry I (5 Credits)
- [GEOG101](#) Introduction to Physical Geography (3 Credits)
- [GEOG104](#) Introduction to Weather and Climate (3 Credits)

#### Goal Area 2 - Critical Thinking

The following courses apply to MNTC Goal 2. Complete all 9 other MNTC goal areas OR select one course.

- [HUM 100](#) Critical Thinking (3 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)
- [PHIL130](#) Logic (4 Credits)
- [CAP 250](#) Associate of Arts Capstone Class (1 Credit)

#### Goal Area 4 - Mathematical/Logical Reasoning

The following courses apply to MNTC Goal 4. To complete the goal, students must complete one course.

- [MATH115](#) Concepts in Math (4 Credits)
- [MATH120](#) College Algebra (4 Credits)
- [MATH125](#) Trigonometry (3 Credits)
- [MATH130](#) Pre-Calculus (4 Credits)
- [MATH131](#) Calculus I (4 Credits)
- [MATH132](#) Calculus II (4 Credits)
- [MATH154](#) Elementary Statistics (4 Credits)
- [MATH231](#) Ordinary Differential Equations (4 Credits)
- [MATH233](#) Multivariable Calculus (4 Credits)
- [MATH240](#) Elementary Linear Algebra (4 Credits)
- [PHIL130](#) Logic (4 Credits)

[PHYS101](#) Introductory Physics (3 Credits)  
[PHYS211](#) Principles in Physics I (4 Credits)  
[PHYS212](#) Principles in Physics II (4 Credits)  
[PHYS221](#) General Physics I (4 Credits)  
[PHYS222](#) General Physics II (4 Credits)

### Goal Area 5 - History and Social Sciences

The following courses apply to MNTC Goal 5. To complete the goal, students must complete at least two courses from two different disciplines.

[ANTH100](#) Introduction to Anthropology (4 Credits)  
[ANTH121](#) Cultural Anthropology (4 Credits)  
[ECON110](#) Principles of Macroeconomics (3 Credits)  
[ECON120](#) Principles of Microeconomics (3 Credits)  
[ETHN101](#) American Racial Minorities (3 Credits)  
[ETHN110](#) The Immigrant Experience (3 Credits)  
[GEOG100](#) Elements of Geography (3 Credits)  
[GEOG103](#) Introduction to Cultural Geography (3 Credits)  
[GEOG200](#) Special Topics in Geography: (3 Credits)  
[HIST120](#) U.S. History I (4 Credits)  
[HIST121](#) U. S. History II (4 Credits)  
[HIST160](#) World History I (4 Credits)  
[HIST161](#) World History II: The Rise of the West (4 Credits)  
[HIST162](#) World History III: The Twentieth Century (4 Credits)  
[HIST205](#) Special Topics in History: (1 - 4 Credits)  
[POL 110](#) American Government (3 Credits)  
[PSYC100](#) Introduction to Psychology (4 Credits)  
[PSYC110](#) Lifespan Psychology (3 Credits)  
[PSYC140](#) Psychology of Positive Adjustment (4 Credits)  
[PSYC210](#) Social Psychology (4 Credits)  
[PSYC220](#) Health Psychology (4 Credits)  
[PSYC230](#) Abnormal Psychology (4 Credits)  
[PSYC240](#) Child and Adolescent Psychology (4 Credits)  
[PSYC250](#) Industrial Organizational Psychology (4 Credits)  
[PSYC280](#) Special Topics in Psychology: (4 Credits)  
[SOC 101](#) Introduction to Sociology (4 Credits)  
[SOC 106](#) Introduction to Criminal Justice (4 Credits)  
[SOC 110](#) Social Problems (3 Credits)  
[SOC 201](#) Marriage and Family (3 Credits)  
[SOC 205](#) Special Topics in Sociology: (3 Credits)  
[SOC 206](#) Juvenile Delinquency (3 Credits)  
[SOC 210](#) Social Stratification - Who Gets What and Why? (3 Credits)  
[SOC 251](#) Criminology and Criminal Behavior (4 Credits)  
[SOC 259](#) Drugs and Society (3 Credits)  
[SOWK100](#) Introduction to Social Work (3 Credits)  
[SOWK105](#) Social Welfare Services (3 Credits)  
[SOWK110](#) Community Social Service Projects (3 Credits)

### Goal Area 7 - Human Diversity

The following courses apply to MNTC Goal 7. To complete the goal, students must complete one course.

[AIS 112](#) Native American Perspectives (4 Credits)  
[ANTH121](#) Cultural Anthropology (4 Credits)  
[ART 155](#) Visual Narrative (3 Credits)  
[COMM130](#) Intercultural Communication (3 Credits)  
[ENGL120](#) Human Diversity in Literature and Film (4 Credits)  
[ENGL208](#) African American Literature (4 Credits)  
[ETHN110](#) The Immigrant Experience (3 Credits)  
[HIST120](#) U.S. History I (4 Credits)  
[HIST121](#) U. S. History II (4 Credits)  
[PSYC110](#) Lifespan Psychology (3 Credits)  
[PSYC230](#) Abnormal Psychology (4 Credits)  
[PSYC240](#) Child and Adolescent Psychology (4 Credits)  
[PSYC250](#) Industrial Organizational Psychology (4 Credits)

### Goal Area 6 - Humanities and Fine Arts

The following courses apply to MNTC Goal 6. To complete the goal, students must select at least two courses from two different disciplines.

[ART 100](#) Art Appreciation (3 Credits)  
[ART 110](#) Art Structure (3 Credits)  
[ART 120](#) Metal Art (3 Credits)  
[ART 125](#) Sculpture (3 Credits)  
[ART 130](#) Painting (3 Credits)  
[ART 135](#) Introduction to Watercolor (3 Credits)  
[ART 140](#) Digital Photography (3 Credits)  
[ART 150](#) Drawing I (3 Credits)  
[ART 155](#) Visual Narrative (3 Credits)  
[ART 165](#) Public Art (3 Credits)  
[ART 170](#) Digital Video Production (3 Credits)  
[ART 180](#) Digital Photography 2 (3 Credits)  
[ART 201](#) Art History I (3 Credits)  
[ART 202](#) Art History II (3 Credits)  
[ART 270](#) Digital Video Production 2 (3 Credits)  
[ENGL110](#) Introduction to Literature (4 Credits)  
[ENGL120](#) Human Diversity in Literature and Film (4 Credits)  
[ENGL130](#) World Literature and Film (4 Credits)  
[ENGL140](#) British Literature (4 Credits)  
[ENGL150](#) Introduction to Poetry (4 Credits)  
[ENGL160](#) Introduction to Short Story (4 Credits)  
[ENGL205](#) Special Topics in Literature & Film: (4 Credits)  
[ENGL206](#) Children's Literature (4 Credits)  
[ENGL208](#) African American Literature (4 Credits)  
[ENGL210](#) Introduction to Creative Writing (4 Credits)  
[ENGL220](#) Creative Writing: Fiction (4 Credits)  
[ENGL230](#) Creative Writing: Screen Writing (4 Credits)  
[HUM 111](#) Introduction to Film (4 Credits)  
[HUM 121](#) Introduction to the Humanities (4 Credits)  
[HUM 122](#) Introduction to Humanities II (4 Credits)  
[HUM 150](#) Global Connections Travel Seminar (1 Credit)  
[HUM 205](#) Special Topics in the Humanities: (1 - 4 Credits)  
[HUM 250](#) Global Connections Travel Seminar II (1 - 3 Credits)  
[PHIL100](#) Ethics in Society (3 Credits)  
[PHIL105](#) World Religions (4 Credits)  
[PHIL110](#) Philosophy and Popular Culture (3 Credits)  
[PHIL150](#) Medical Ethics (3 Credits)  
[PHIL205](#) Special Topics in Philosophy: (1 - 3 Credits)  
[PHIL220](#) Philosophy and the Just Society (3 Credits)  
[MUSC100](#) Music in the Global Culture (3 Credits)  
[MUSC121](#) Class Guitar (2 Credits)

[MUSC131](#) Music Theory 1 (2 Credits)

And

[MUSC141](#) Vocal Ensemble - Concert Choir (1 Credit)

[THTR100](#) Introduction to Theater (3 Credits)

[THTR110](#) Introduction to Acting I (3 Credits)

### Goal Area 8 - Global Perspective

The following courses apply to MNTC Goal 8. To complete the goal, students must complete one course.

[ANTH100](#) Introduction to Anthropology (4 Credits)  
[ART 201](#) Art History I (3 Credits)  
[ART 202](#) Art History II (3 Credits)  
[ASL 101](#) American Sign Language 1 (3 Credits)  
[COMM130](#) Intercultural Communication (3 Credits)  
[ENGL130](#) World Literature and Film (4 Credits)  
[GEOG100](#) Elements of Geography (3 Credits)  
[GEOG103](#) Introduction to Cultural Geography (3 Credits)  
[GEOG105](#) World Regional Geography (3 Credits)  
[HIST160](#) World History I (4 Credits)  
[HIST161](#) World History II: The Rise of the West (4 Credits)  
[HIST162](#) World History III: The Twentieth Century (4 Credits)  
[HIST205](#) Special Topics in History: (1 - 4 Credits)

[SOC 110](#) Social Problems (3 Credits)  
[SOC 201](#) Marriage and Family (3 Credits)  
[SOWK100](#) Introduction to Social Work (3 Credits)  
[SOWK105](#) Social Welfare Services (3 Credits)  
[SOWK110](#) Community Social Service Projects (3 Credits)

[HUM 122](#) Introduction to Humanities II (4 Credits)  
[HUM 150](#) Global Connections Travel Seminar (1 Credit)  
[HUM 250](#) Global Connections Travel Seminar II (1 - 3 Credits)  
[MUSC100](#) Music in the Global Culture (3 Credits)  
[PSYC210](#) Social Psychology (4 Credits)  
[PHIL105](#) World Religions (4 Credits)  
[SOC 101](#) Introduction to Sociology (4 Credits)  
[SOC 210](#) Social Stratification - Who Gets What and Why? (3 Credits)  
[SOLA100](#) Somali Language I (4 Credits)  
[SOLA102](#) Somali Language II (4 Credits)  
[SPAN105](#) Elementary Spanish I (4 Credits)  
[SPAN110](#) Elementary Spanish II (4 Credits)  
[SPAN205](#) Intermediate Spanish (4 Credits)

#### **Goal Area 9 - Ethical and Civic Responsibility**

The following courses apply to MNTC Goal 9. To complete the goal, students must complete one course.

[COMM110](#) Public Speaking (3 Credits)  
[ECON110](#) Principles of Macroeconomics (3 Credits)  
[ECON120](#) Principles of Microeconomics (3 Credits)  
[ENGL115](#) Global Peace and Social Justice (4 Credits)  
[ETHN101](#) American Racial Minorities (3 Credits)  
[ETHN110](#) The Immigrant Experience (3 Credits)  
[MASS110](#) Introduction to Mass Communication (4 Credits)  
[PHIL100](#) Ethics in Society (3 Credits)  
[PHIL140](#) Science in Society (3 Credits)  
[PHIL150](#) Medical Ethics (3 Credits)  
[PHIL210](#) Environmental Ethics (3 Credits)  
[PHIL215](#) Business Ethics (3 Credits)  
[PHIL220](#) Philosophy and the Just Society (3 Credits)  
[POL 110](#) American Government (3 Credits)  
[PSYC140](#) Psychology of Positive Adjustment (4 Credits)  
[SOC 106](#) Introduction to Criminal Justice (4 Credits)  
[SOC 205](#) Special Topics in Sociology: (3 Credits)  
[SOC 206](#) Juvenile Delinquency (3 Credits)  
[SOC 251](#) Criminology and Criminal Behavior (4 Credits)  
[SOC 259](#) Drugs and Society (3 Credits)

#### **Goal Area 10 - People and the Environment**

The following courses apply to MNTC Goal 10. To complete the goal, students must complete one course.

[AIS 112](#) Native American Perspectives (4 Credits)  
[BIOL101](#) Introduction to Ecology (4 Credits)  
[BIOL152](#) Tropical Rain Forest Ecology (4 Credits)  
[GEOG101](#) Introduction to Physical Geography (3 Credits)  
[GEOG104](#) Introduction to Weather and Climate (3 Credits)  
[GEOG105](#) World Regional Geography (3 Credits)  
[HHP 101](#) Health and the Environment (3 Credits)  
[PHIL210](#) Environmental Ethics (3 Credits)

## Multimedia Technology

A.S. Degree • 60 Credits

AS 3284

### Degree Description

Here is a list of courses required to earn the Multimedia Technology Associate in Science

**Admission Dates: Fall and Spring Semester**

### Offered on the North Mankato Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Multimedia Technology department. [See the Multimedia Technology department page for more details](#)

### Required Courses (6 Courses)

Complete the following courses:

- [GCC 1120](#) Graphic Software 1 (4 Credits)
- [GCC 1130](#) Layout and Typography (3 Credits)
- [GCC 1220](#) Graphic Software 2 (4 Credits)
- [GCC 2150](#) Web/Interactive Media 2 (3 Credits)
- [GCC 2250](#) Web/Interactive Media 3 (3 Credits)
- [COMP1140](#) Web for Business (3 Credits)

### Complete 4 credits of one or a combination of the (4 Credits)

following two courses:

- [MULT2295](#) Multimedia Technology Internship (1 - 4 Credits)
- [MULT2285](#) Multimedia Technology Capstone (1 - 4 Credits)

### Complete two of the following courses: (2 Courses)

- [MKT 1810](#) Principles of Marketing (3 Credits)
- [MKT 1820](#) Introduction to Business (3 Credits)
- [MKT 1840](#) Principles of Advertising (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Required Liberal Arts and Sciences (6 Courses)

To complete the Multimedia Technology AS Degree, students must complete 30 MNTC credits from 6 of the 10 MNTC Goal Areas.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- Or
- [COMM110](#) Public Speaking (3 Credits)
- [ART 140](#) Digital Photography (3 Credits)
- [ART 170](#) Digital Video Production (3 Credits)
- [ART 180](#) Digital Photography 2 (3 Credits)
- [ART 270](#) Digital Video Production 2 (3 Credits)

- [MASS110](#) Introduction to Mass Communication (4 Credits)
- Or
- [PHIL100](#) Ethics in Society (3 Credits)
- Or
- [PHIL215](#) Business Ethics (3 Credits)

### Liberal Arts and Sciences Electives

Select an additional 11-12 credits to fulfill three other MNTC Goal Areas (MNTC Goals 2,3,4,5,7,8,10).

## Nursing

A.S. Degree • 64 Credits

AS 2317/AS 3363

### Degree Description

The South Central College Professional Nursing Associate in Science Degree is approved by Minnesota State Colleges and Universities and the Minnesota Board of Nursing and a candidate for accreditation by the National League for Nursing Accrediting Commission.

The Associate in Science Degree in Nursing prepares learners for the role of a professional nurse, which includes providing safe and culturally competent care in a variety of settings. Learners will develop and maintain positive, healthy relationships with patients, families, and the community as they learn to practice according to legal, ethical, and professional standards. Evidence will support care, learning, and professional development as learners become advocates for quality health care.

Qualified licensed practical nurses admitted into the Nursing Program will be granted advanced standing for graduation prior to taking their first nursing class. A qualified LPN is one who has met the admission criteria for the SCC Nursing Program. Admitted LPN's will be required to complete a 4-credit "Nursing Transitions" course (NURS2200).

For students wishing to complete the program on a part-time basis, it is recommended they take as many of the required liberal arts and science courses as possible before beginning the program (during their "pre-nursing" time).

Admitted individuals are required to participate in a background study.

Individuals earning an Associate in Science Degree may transfer credits to a four-year institution to work towards a Bachelor's Degree in Nursing. Learners will be required to take additional liberal arts and science courses, and should visit with whichever institution they wish to transfer to for further information.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Nursing department. [See the Nursing department page for more details](#)

### Required Technical Courses (10 Courses)

Complete the following courses:

- [NURS2210](#) Semester 1 Theory (2 Credits)
- [NURS2275](#) Skills & Pharmacology I (4 Credits)
- [NURS2250](#) Semester 1 Clinical Practice (2 Credits)
- [NURS2310](#) Semester 2 Theory (5 Credits)
- [NURS2375](#) Semester 2 Skills & Pharmacology II (2 Credits)
- [NURS2350](#) Semester 2 Clinical Practice (4 Credits)
- [NURS2410](#) Semester 3 Theory (4 Credits)
- [NURS2450](#) Semester 3 Clinical Practice (4 Credits)
- [NURS2510](#) Semester 4 Theory (2 Credits)
- [NURS2550](#) Semester 4 Clinical Practice (4 Credits)

### Additional Liberal Arts and Sciences (6 Credits)

Students must complete 6 additional credits from at least two of the following MNTC Goal Areas: 2,4,6,9,10.

### Required Liberal Arts and Sciences (7 Courses)

To complete an A.S. Degree, student must complete 31 MNTC credits from 6 of the 10 MNTC Goal Areas. Complete the following required courses:

- [BIOL225](#) Anatomy and Physiology I (4 Credits)
- [BIOL235](#) Anatomy and Physiology II (4 Credits)
- [BIOL240](#) Pathophysiology (3 Credits)
- [BIOL270](#) Microbiology (4 Credits)
- [COMM130](#) Intercultural Communication (3 Credits)
- [ENGL100](#) Composition (4 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Practical Nursing Diploma • 40 Credits

DIP 2302/DIP 3304

---

### Degree Description

Learners pursuing the Practical Nursing diploma will be taught to collect data related to client physical and mental functioning, administer prescribed medications, demonstrate effective therapeutic communication, provide thorough reporting and recording, prioritize and care for multiple clients with a variety of disorders, perform technical nursing skills and understand the importance of maintaining confidentiality. After completion of the 40 credits of the Nursing Program, learners are qualified to receive the Practical Nursing Diploma and are eligible to take the NCLEX-PN examination.

Admitted Practical Nursing candidates are required to participate in a background study.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Nursing department. [See the Nursing department page for more details](#)

### Required Technical Courses (10 Courses)

You must complete the following courses:

- [NURS1110](#) Foundation of Nursing (3 Credits)
- [NURS1150](#) Clinical Foundation (3 Credits)
- [NURS1175](#) Nursing Interventions (3 Credits)
- [NURS1275](#) Medication Administration (1 Credit)
- [NURS1210](#) Pharmacology for Practical Nurses (1 Credit)
- [NURS1310](#) Application of Nursing (4 Credits)
- [NURS1350](#) Clinical Application (4 Credits)
- [NURS1375](#) Laboratory Application (2 Credits)
- [NURS1410](#) Maternal Child Nursing (2 Credits)
- [NURS1610](#) Psychosocial Nursing (2 Credits)

### Required Liberal Arts & Sciences (4 Courses)

Complete the following courses:

- [ENGL100](#) Composition (4 Credits)
- [BIOL225](#) Anatomy and Physiology I (4 Credits)
- [BIOL235](#) Anatomy and Physiology II (4 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## 2015-2016 PROGRAMS OF STUDY

### Nursing Assistant (Basic Nursing)

---

#### Degree Description

The Nursing Assistant-Home Health Aide Program prepares individuals to work in the hospitals, nursing homes and home care settings. Students learn to safely assist clients with basic physical and emotional needs.

Nursing Assistant is NOT a degree program at South Central College. Rather, it is a course designed to prepare you for the Nursing Assistant/Home Health Aide Competency Test.

This course may not be eligible for federal student aid if not taken as part of a designated program. See advisor for further information.

Minnesota law requires that all persons who provide services that involve direct contact with patients and residents at a health care facility be subject to a background study. A student who is disqualified from having direct patient contact as a result of the background study will not be permitted to participate in a clinical placement in a health care facility and will not be allowed to continue in the nursing program or Nursing Assistant Course. Students who have a disqualification that the Minnesota Commissioner of Health may consider setting aside will not be allowed to continue in the nursing program (an exception may be made for students enrolled in the Nursing Assistant Course).

**Admission Dates: Fall, Spring, and Summer Semester**

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Nursing department. [See the Nursing department page for more details](#)

**(1 Course)**

**HCTC1886** Nursing Assistant (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Management

A.S. Degree • 60 Credits

AS 2281/AS 3281

### Degree Description

Learners enrolled in the Administrative Office Management Associate in Science (A.S.) Degree are prepared to manage functions in the office environment. This degree option is recommended for experienced office professionals as well as entry-level administrative professionals who are looking to increase their potential for promotion. Graduates with this degree receive training in a variety of office management functions including those in communications, information resources, and management. Learners earn half of the required credits (30) in business-related courses and the other half (30) in business-related liberal arts and sciences classes. Learners may also choose to transfer this degree to Winona State University's Bachelor of Science Degree in Business Education - Teaching to prepare as a business educator or as a corporate trainer.

### Degree Student Learning Outcomes

1. Apply current office management procedures and techniques.

### Admission Dates: Fall and Spring Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Technical Courses (8 Courses)

Select the following courses:

- [ACCT1810](#) Financial Accounting (4 Credits)
- [ACCT1811](#) Managerial Accounting (4 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)
- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2820](#) Business Communications (3 Credits)
- [OTEC2860](#) Office Management (3 Credits)

### Select 3 credits from the following courses: (3 Credits)

- [ACCT1700](#) Personal Financial Management (3 Credits)
- [MKT 1810](#) Principles of Marketing (3 Credits)

### Required Liberal Arts and Sciences (4 Courses)

To complete an AS degree, students must complete 30 MNTC credits from 6 of the 10 MNTC goal areas. You are required to complete MNTC Goal 6 by taking two courses from two disciplines.

The following courses are required:

- [ENGL100](#) Composition (4 Credits)
- [COMM110](#) Public Speaking (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)
- [ECON110](#) Principles of Macroeconomics (3 Credits)
- Or
- [ECON120](#) Principles of Microeconomics (3 Credits)

### Additional Required Liberal Arts and Sciences: (1 Course)

Choose one course from the following list of MNTC Goal Area 3 courses:

- [BIOL100](#) Introduction to Biology (4 Credits)

### Additional required MNTC Goal Area 5 course: (1 Course)

Choose 1 additional History or Social Science course not in ECON.

PLEASE NOTE: All program plans are preliminary and curriculum may

Or  
[BIOL101](#) Introduction to Ecology (4 Credits)  
Or  
[CHEM108](#) Introduction to Chemistry (4 Credits)  
Or  
[PHYS211](#) Principles in Physics I (4 Credits)

**Additional required MATH Course (1 Course)**

Choose one course from the following list:

[MATH120](#) College Algebra (4 Credits)  
Or  
[MATH130](#) Pre-Calculus (4 Credits)  
Or  
[MATH154](#) Elementary Statistics (4 Credits)

change without notice. Your [catalog of record](#) may have different requirements.

**Additional required MNTC Goal 6 Courses**

Choose TWO courses from TWO different disciplines in MNTC Goal 6.

## Administrative Office Specialist

A.A.S. Degree • 60 Credits

AAS 2255/AAS 3292

### Degree Description

This degree is designed to prepare learners for employment as administrative assistants. Administrative assistants perform a variety of tasks, which may include the following: learn and use various computer applications, prepare and edit business documents, file, manage records, use electronic calendars, handle telephone calls, schedule meetings, make travel arrangements, greet visitors, and process mail. Other responsibilities may include the following: perform research, supervise or train others, record minutes at meetings, purchase equipment and supplies, and present data. After completion of this program, students will be proficient with verbal and written communications, as well as decision-making and problem-solving skills.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Core Courses (8 Courses)

Complete all of the following courses:

- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2800](#) Office Keyboarding (3 Credits)
- [OTEC2810](#) Computer Technology (3 Credits)
- [OTEC2814](#) Office Procedures (4 Credits)
- [OTEC2815](#) Employment Portfolio (3 Credits)
- [OTEC2820](#) Business Communications (3 Credits)

### Required Emphasis Courses (6 Courses)

Complete the following courses:

- [COMP1140](#) Web for Business (3 Credits)
  - [OTEC1840](#) Business Presentations (3 Credits)
  - [OTEC2830](#) Microsoft Publisher (3 Credits)
  - [OTEC2850](#) Integrated Information Systems (3 Credits)
  - [OTEC2870](#) Information Resource Management (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)  
Or  
[OTEC2855](#) Internship (3 Credits)

### Required Liberal Arts and Sciences (2 Courses)

To complete an AAS Degree, students must complete 16 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

- [COMM130](#) Intercultural Communication (3 Credits)  
Or
  - [COMM140](#) Interpersonal Communication (3 Credits)
- 
- [PHIL100](#) Ethics in Society (3 Credits)  
Or
  - [PHIL215](#) Business Ethics (3 Credits)

### Elective Liberal Arts and Sciences

Select 9 additional MNTC credits in consultation with advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Specialist

• 60 Credits

AAS 2253/AAS 3290

### Degree Description

This program is designed to prepare learners for employment as administrative office specialists in financial offices. Administrative office specialists in financial offices perform a variety of tasks, which may include learning and using various computer applications, preparing and editing business documents, filing, managing records, using electronic calendars, handling telephone calls, scheduling meetings, making travel arrangements, greeting visitors, and processing mail. Other responsibilities may include: routine calculating, posting, and verifying primary financial data in maintaining accounting records, preparing daily bank deposits, writing checks, and maintaining a cash disbursement system.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Emphasis Courses (5 Courses)

Complete the following courses:

[ACCT1800](#) Business Law (3 Credits)  
[ACCT1810](#) Financial Accounting (4 Credits)  
[ACCT1811](#) Managerial Accounting (4 Credits)  
[ACCT1814](#) Payroll Accounting (3 Credits)

[MKT 1830](#) Customer Service (3 Credits)

Or

[OTEC2855](#) Internship (3 Credits)

### Required Core Courses (8 Courses)

Complete all of the following courses:

[OTEC1820](#) Business English (3 Credits)  
[OTEC1822](#) Microsoft Excel (4 Credits)  
[OTEC1860](#) Microsoft Word (4 Credits)  
[OTEC2800](#) Office Keyboarding (3 Credits)  
[OTEC2810](#) Computer Technology (3 Credits)  
[OTEC2814](#) Office Procedures (4 Credits)  
[OTEC2815](#) Employment Portfolio (3 Credits)  
[OTEC2820](#) Business Communications (3 Credits)

### Required Liberal Arts and Sciences (3 Courses)

To complete an AAS Degree, students must complete 16 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

[COMM130](#) Intercultural Communication (3 Credits)

Or

[COMM140](#) Interpersonal Communication (3 Credits)

[PHIL100](#) Ethics in Society (3 Credits)

Or

[PHIL215](#) Business Ethics (3 Credits)

[ECON110](#) Principles of Macroeconomics (3 Credits)

Or

[ECON120](#) Principles of Microeconomics (3 Credits)

### Elective Liberal Arts and Sciences

Select 7 additional MNTC credits in consultation with advisor/faculty.

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Specialist

A.A.S. Degree • 60 Credits

AAS 3291/AAS 2254

### Degree Description

Legal administrative assistants perform the administrative tasks in a law office such as answering the telephone, managing the electronic and paper files, transcribing, preparing law office correspondence and legal documents, maintaining the calendar, personal contact with attorneys, courthouse personnel, law office personnel, and others. In addition, the legal administrative assistant drafts documents, gathers information relevant to the client's case, has personal and phone contact with the client, and does minimal legal research. Overall, the legal administrative assistant manages the procedural tasks for clients in the law office with an attorney's supervision. All courses in this program are offered online. Some courses are hybrid meaning that there is some live learner/instructor contact. All class sessions are recorded for those who can't attend live. The difference between a Legal Administrative Assistant Degree and a Legal Administrative Assistant Diploma is that the degree has 16 credits of Liberal Arts and Sciences.

### Degree Student Learning Outcomes

1. Create basic legal documents
2. Proofread, edit, and revise legal documents

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Emphasis Courses (6 Courses)

Complete the following courses:

[OTEC1725](#) Transactional Law (3 Credits)  
[OTEC1730](#) Civil Procedures (3 Credits)  
[OTEC2735](#) Family and Criminal Law (3 Credits)  
[OTEC2740](#) Legal Editing and Proofreading (3 Credits)  
[OTEC2870](#) Information Resource Management (3 Credits)

[OTEC2850](#) Integrated Information Systems (3 Credits)  
Or  
[OTEC2855](#) Internship (3 Credits)

### Elective Liberal Arts and Sciences

Select 9 additional MNTC credits in consultation with advisor/faculty.

### Required Core Courses (8 Courses)

Complete all of the following courses:

[OTEC1820](#) Business English (3 Credits)  
[OTEC1822](#) Microsoft Excel (4 Credits)  
[OTEC1860](#) Microsoft Word (4 Credits)  
[OTEC2800](#) Office Keyboarding (3 Credits)  
[OTEC2810](#) Computer Technology (3 Credits)  
[OTEC2814](#) Office Procedures (4 Credits)  
[OTEC2815](#) Employment Portfolio (3 Credits)  
[OTEC2820](#) Business Communications (3 Credits)

### Required Liberal Arts and Sciences (2 Courses)

To complete an AAS Degree, students must complete 16 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

[COMM130](#) Intercultural Communication (3 Credits)  
Or  
[COMM140](#) Interpersonal Communication (3 Credits)

[PHIL100](#) Ethics in Society (3 Credits)  
Or  
[PHIL215](#) Business Ethics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Specialist

A.A.S. Degree • 60 Credits

AAS 3295/AAS 2251

### Degree Description

The Administrative Office Specialist-Medical program is designed for learners interested in working in a medical facility and who enjoy office work. Learners will become proficient in keyboarding, word processing, grammar and sentence structure, medical terminology, computer technology, and medical records. The increased technology in this field demands skilled office personnel as physicians and other health care professionals rely upon the expertise of the Administrative Office Specialist. Examples of duties include scheduling appointments, medical prior authorizations, and verifying medical insurance. The opportunity to work in many health care settings is appealing for those wishing to engage with health care specialists and patients. Employment opportunities would include clinics, hospitals, long-term care facilities, chiropractic clinics, and other health care related facilities.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Emphasis Courses (7 Courses)

Complete the following courses:

- [COMP1140](#) Web for Business (3 Credits)
- [HC 1000](#) Medical Terminology (3 Credits)
- [HC 1500](#) Healthcare Foundation: Introduction to Health Careers (1 - 3 Credits)
- [HC 1550](#) Electronic Health Records (2 Credits)
- [MA 1020](#) Medical Office Procedures (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)

### Elective Liberal Arts and Sciences

Select 9 additional MNTC credits in consultation with advisor/faculty.

### Required Core Courses (8 Courses)

Complete all of the following courses:

- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2800](#) Office Keyboarding (3 Credits)
- [OTEC2810](#) Computer Technology (3 Credits)
- [OTEC2814](#) Office Procedures (4 Credits)
- [OTEC2815](#) Employment Portfolio (3 Credits)
- [OTEC2820](#) Business Communications (3 Credits)

### Required Liberal Arts and Sciences (3 Courses)

To complete an AAS Degree, students must complete 15 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

- [COMM130](#) Intercultural Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)
- Or
- [PHIL215](#) Business Ethics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Specialist

A.A.S. Degree • 60 Credits

AAS 2252/ AAS 3289

### Degree Description

\*\*\* PENDING MnSCU APPROVAL \*\*\*

This program is designed to prepare learners as Administrative Office Specialists with a focus on technical support. Learners will develop skills in computer software, electronic mail, network management, media management, applications support, systems administration tasks, computer maintenance, Internet, and emerging software technologies.

### Degree Student Learning Outcomes

1. Demonstrate support of hardware and software applications.
2. Create and maintain web documents.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### NOTE: Basic Entrance Requirement

Students must either currently have or attain the skills in OTEC 1001 Computer Software for College and OTEC 1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Emphasis Courses (5 Courses)

Complete the following courses:

- [COMP1140](#) Web for Business (3 Credits)
- [COMP1200](#) PC Hardware and Software Essentials (4 Credits)
- [COMP1360](#) Introduction to Data Communications and Networking (4 Credits)
- [OTEC2870](#) Information Resource Management (3 Credits)
- [MKT 1830](#) Customer Service (3 Credits)
- Or
- [OTEC2855](#) Internship (3 Credits)

### Elective Liberal Arts and Sciences

Select 10 additional MNTC credits in consultation with advisor/faculty.

### Required Core Courses (8 Courses)

Complete all of the following courses:

- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2800](#) Office Keyboarding (3 Credits)
- [OTEC2810](#) Computer Technology (3 Credits)
- [OTEC2814](#) Office Procedures (4 Credits)
- [OTEC2815](#) Employment Portfolio (3 Credits)
- [OTEC2820](#) Business Communications (3 Credits)

### Required Liberal Arts and Sciences (2 Courses)

To complete an AAS Degree, students must complete 16 MNTC credits from 3 of the 10 MNTC Goal Areas.

The following courses are required:

- [COMM130](#) Intercultural Communication (3 Credits)
- Or
- [COMM140](#) Interpersonal Communication (3 Credits)
- [PHIL100](#) Ethics in Society (3 Credits)
- Or
- [PHIL215](#) Business Ethics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



## 2015-2016 PROGRAMS OF STUDY

### **Administrative Office Specialist** Certificate • 16 Credits

CERT3293/CERT2256

---

#### Degree Description

The Administrative Office Specialist Business Software Certificate allows learners to upgrade their technology and software skills. Learners will learn the Microsoft Office applications including Word, Excel, and PowerPoint. Students may choose from a varied list of electives to tailor the certificate to their individual needs.

#### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

#### **Required Technical Courses (5 Courses)**

Complete the following courses:

- [OTEC1815](#) Keyboarding for Speed and Accuracy (2 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1840](#) Business Presentations (3 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2870](#) Information Resource Management (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Administrative Office Specialist Certificate • 23 Credits

CERT3294/ CERT2257

---

### Degree Description

This program is designed to prepare learners for employment as a client relations specialist. Because client relations specialists answer questions from external and internal customers about the organization, they need to develop strong interpersonal and communication skills. Client relations specialists may be asked to perform general office responsibilities as well as client relations tasks.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Office Administration and Technology department. [See the Office Administration and Technology department page for more details](#)

### Note: Keyboarding Prerequisite Requirement

Students must either currently have or attain the skills in OTEC1001 Computer Software for College and OTEC1790 Keyboarding for College before entry in the Office Administration and Technology programs.

### Required Technical Courses (7 Courses)

Complete all of the following courses:

- [MKT 1830](#) Customer Service (3 Credits)
- [OTEC1815](#) Keyboarding for Speed and Accuracy (2 Credits)
- [OTEC1820](#) Business English (3 Credits)
- [OTEC1822](#) Microsoft Excel (4 Credits)
- [OTEC1860](#) Microsoft Word (4 Credits)
- [OTEC2800](#) Office Keyboarding (3 Credits)
- [OTEC2814](#) Office Procedures (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Pharmacy Technician

A.A.S. Degree • 60 Credits

AAS 2319/AAS 3324

---

### Degree Description

The Pharmacy Technician A.A.S. Degree will prepare learners for the Pharmacy Technician Certification Exam (PTCE). Upon passing this exam, students will earn the credential: CPhT (Certified Pharmacy Technician).

**Admission Dates: Applications to this program area no longer being accepted.**

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Pharmacy Technician department. [See the Pharmacy Technician department page for more details](#)

### Required Technical Courses (14 Courses)

Complete all of the following courses:

- [HC 1000](#) Medical Terminology (3 Credits)
- [HC 1914](#) Anatomy & Physiology/Disease Conditions I (4 Credits)
- [HHP 210](#) Stress Management (3 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)
- [PHRM1110](#) Pharmacy Technician Orientation (1 Credit)
- [PHRM1111](#) Pharmacy Law and Ethics (1 Credit)
- [PHRM1112](#) Retail Pharmacy (2 Credits)
- [PHRM1113](#) Pharmacy Math (4 Credits)
- [PHRM2114](#) Pharmacology (4 Credits)
- [PHRM2115](#) Pharmacy Non-Sterile Compounding (2 Credits)
- [PHRM2116](#) Institutional Pharmacy (4 Credits)
- [PHRM2117](#) Community Pharmacy Internship (4 Credits)
- [PHRM2118](#) Pharmacy Technician Seminar (1 Credit)
- [PHRM2119](#) Institutional Pharmacy Internship (4 Credits)

### Required Liberal Arts and Sciences (6 Courses)

To complete an AAS Degree, students must complete 21 MNTC credits from 3 of the 10 MNTC Goal areas.

- [ETHN101](#) American Racial Minorities (3 Credits)
- [ENGL100](#) Composition (4 Credits)
- [HUM 100](#) Critical Thinking (3 Credits)
- [CHEM108](#) Introduction to Chemistry (4 Credits)
- [PSYC100](#) Introduction to Psychology (4 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Phlebotomy

Certificate • 18 Credits

CERT2306

---

### Degree Description

The goals of the Phlebotomy program are to provide academic education for individuals to acquire the knowledge, skills, and attitudes necessary for becoming a specialist in obtaining blood specimens by venipuncture, arterial, and microtechniques, for the purpose of laboratory analysis. A phlebotomist must have knowledge of the healthcare system, the anatomy and physiology related to laboratory testing and phlebotomy, the collection and transport requirements for tests performed in all areas of the laboratory, documentation and patient records, and interpersonal skills needed to provide quality patient care.

### Admission Dates: Fall Semester

### Offered on the Faribault Campus

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Phlebotomy department. [See the Phlebotomy department page for more details](#)

### Required Technical Courses (4 Courses)

Complete the following courses:

- [MDLT1810](#) Laboratory Techniques and Orientation (3 Credits)
- [PHLE1000](#) Anatomy & Physiology (2 Credits)
- [PHLE1100](#) Legal/Ethical Issues for Phlebotomists (1 Credit)
- [PHLE1200](#) Multiskilling for Phlebotomists (3 Credits)

### Required Liberal Arts and Sciences (3 Credits)

Please complete one of the following courses:

- [COMM140](#) Interpersonal Communication (3 Credits)
- Or
- [COMM110](#) Public Speaking (3 Credits)

### Other Required Courses (3 Courses)

Please complete the following courses:

- [FYE 100](#) First Year Experience (1 Credit)
- [HC 1000](#) Medical Terminology (3 Credits)
- [OTEC1001](#) Computer Software for College (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Small Business Management Diploma • 39 Credits

DIP 2109/DIP 3121

### Degree Description

The Small Business Management diploma provides a broad spectrum of education in the management of a small business. The curriculum focuses on strategic planning, record keeping, financial analysis, marketing and personnel management through the required classes. Additionally, elective classes allow the business owner or manager to focus on specific areas they feel are most important to their business.

### Admission Dates: Fall, Spring, and Summer Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

### Required Technical Courses (8 Courses)

Select all of the following courses:

- [SBMT1110](#) SBM Organizational Planning (2 Credits)
- [SBMT1120](#) SBM Business Systems (3 Credits)
- [SBMT1210](#) SBM Financial Systems (3 Credits)
- [SBMT1220](#) SBM Financial Management (3 Credits)
- [SBMT1230](#) SBM Financial Analysis (3 Credits)
- [SBMT1310](#) SBM Marketing Systems (2 Credits)
- [SBMT1320](#) SBM Marketing Management (2 Credits)
- [SBMT1410](#) SBM Personnel Systems (3 Credits)

### Required Technical Course Electives (18 Credits)

You must complete 18 credits of electives from the following lists.

- [SBMT2130](#) SBM Record Keeping (3 Credits)
- [SBMT2131](#) SBM Asset & Inventory Management (2 Credits)
- [SBMT2132](#) SBM A/R & A/P Management (2 Credits)
- [SBMT2133](#) SBM Reconciliation & Closing Accounts (2 Credits)
- [SBMT2134](#) SBM Payroll Systems (3 Credits)
- [SBMT2135](#) SBM Payroll Reports (2 Credits)
- [SBMT2136](#) SBM Year End Closing (1 Credit)
- [SBMT2240](#) SBM Organizational Structure (1 Credit)
- [SBMT2241](#) SBM Financial & Tax Planning (2 Credits)
- [SBMT2242](#) SBM Risk Management (1 Credit)
- [SBMT2243](#) SBM Cost Analysis (2 Credits)
- [SBMT2244](#) SBM Pro-Forma Financial Statements (2 Credits)
- [SBMT2330](#) SBM Sales & Marketing Analysis (2 Credits)
- [SBMT2331](#) SBM Marketing Research (1 Credit)
- [SBMT2332](#) SBM e-Business Sales (2 Credits)
- [SBMT2333](#) SBM Customer Information Systems (1 Credit)
- [SBMT2334](#) SBM Customer Service (2 Credits)
- [SBMT2420](#) SBM Supervisory Skills 1 (2 Credits)
- [SBMT2421](#) SBM Supervisory Skills 2 (2 Credits)
- [SBMT2422](#) SBM Employee Compensation (2 Credits)
- [SBMT2531](#) SBM Business Communications (1 Credit)
- [SBMT2532](#) SBM Business Math (1 Credit)
- [SBMT2533](#) SBM Time Management Skills (1 Credit)
- [SBMT2534](#) SBM Stress Management Skills (1 Credit)
- [SBMT2610](#) SBM Computerization-Accounting (3 Credits)
- [SBMT2611](#) SBM Computerization-Sales & Marketing (3 Credits)
- [SBMT2612](#) SBM Computerization-Human Resources (3 Credits)
- [SBMT2700](#) SBM Going Into Business (3 Credits)
- [SBMT2900](#) SBM Special Projects (1 - 3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



2015-2016 **PROGRAMS OF STUDY**

## **Small Business Management** Certificate • 21 Credits

CERT2144/CERT3144

---

### Degree Description

The SBM certificate provides a broad spectrum of education in the management of a small business. The curriculum focuses on strategic planning, record keeping, financial analysis, marketing and personnel management through the required classes. No electives are available for this certificate.

### **Admission Dates: Fall, Spring, and Summer Semester**

### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

### **Required Technical Courses (8 Courses)**

Complete all of the following courses:

- [SBMT1110](#) SBM Organizational Planning (2 Credits)
- [SBMT1120](#) SBM Business Systems (3 Credits)
- [SBMT1210](#) SBM Financial Systems (3 Credits)
- [SBMT1220](#) SBM Financial Management (3 Credits)
- [SBMT1230](#) SBM Financial Analysis (3 Credits)
- [SBMT1310](#) SBM Marketing Systems (2 Credits)
- [SBMT1320](#) SBM Marketing Management (2 Credits)
- [SBMT1410](#) SBM Personnel Systems (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



2015-2016 **PROGRAMS OF STUDY**

## **Small Business Management Financial Management Certificate • 14 Credits**

CERT2142/CERT3142

---

### Degree Description

The SBM certificate provides a broad spectrum of education in the management of a small business. The curriculum focuses on strategic planning, record keeping, financial analysis, marketing and personnel management through the required classes. No electives are available for this certificate.

### **Admission Dates: Fall, Spring, and Summer Semester**

### **Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

### **Required Technical Courses (5 Courses)**

Complete all of the following courses:

[SBMT1110](#) SBM Organizational Planning (2 Credits)

[SBMT1120](#) SBM Business Systems (3 Credits)

[SBMT1210](#) SBM Financial Systems (3 Credits)

[SBMT1220](#) SBM Financial Management (3 Credits)

[SBMT1230](#) SBM Financial Analysis (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



2015-2016 PROGRAMS OF STUDY

**Small Business Management Human Resources**  
Certificate • 12 Credits

CERT2140/CERT3140

Degree Description

The SBM Human Resources certificate provides a focus on HR skills needed by the small business owner or manager. Required classes cover the basics of small business management and personal or human resources management. Electives allow the business owner or manager to focus on areas of specific need or interest.

**Admission Dates: Fall, Spring, and Summer Semester**

**Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

**Required Technical Courses (3 Courses)**

Complete all of the following courses:

- [SBMT1110](#) SBM Organizational Planning (2 Credits)
- [SBMT1120](#) SBM Business Systems (3 Credits)
- [SBMT1410](#) SBM Personnel Systems (3 Credits)

**Choose 4 credits from the following list: (4 Credits)**

- [SBMT2420](#) SBM Supervisory Skills 1 (2 Credits)
- [SBMT2421](#) SBM Supervisory Skills 2 (2 Credits)
- [SBMT2422](#) SBM Employee Compensation (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



2015-2016 PROGRAMS OF STUDY

## Small Business Management Marketing Certificate • 14 Credits

CERT2141/CERT3141

### Degree Description

The SBM Marketing certificate provides a focus on marketing skills needed by the small business owner or manager. Required classes cover the basics of small business management and marketing. Electives allow the business owner or manager to focus on areas of specific need or interest.

### Admission Dates: Fall, Spring, and Summer Semester

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

### Required Technical Courses (4 Courses)

Complete all of the following courses:

- [SBMT1110](#) SBM Organizational Planning (2 Credits)
- [SBMT1120](#) SBM Business Systems (3 Credits)
- [SBMT1310](#) SBM Marketing Systems (2 Credits)
- [SBMT1320](#) SBM Marketing Management (2 Credits)

### Choose 5 credits from the following list: (5 Credits)

- [SBMT2330](#) SBM Sales & Marketing Analysis (2 Credits)
- [SBMT2331](#) SBM Marketing Research (1 Credit)
- [SBMT2332](#) SBM e-Business Sales (2 Credits)
- [SBMT2333](#) SBM Customer Information Systems (1 Credit)
- [SBMT2334](#) SBM Customer Service (2 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.



2015-2016 **PROGRAMS OF STUDY**

**Small Business Management Record Keeping**  
Certificate • 18 Credits

CERT2143/CERT3143

Degree Description

The SBM Record Keeping certificate provides a focus on record keeping skills needed by the small business owner or manager. Required classes cover the basics of small business management and record keeping. Electives allow the business owner or manager to focus on areas of specific need or interest.

**Admission Dates: Fall, Spring, and Summer Semester**

**Offered on the Faribault and North Mankato Campuses**

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Small Business Management department. [See the Small Business Management department page for more details](#)

**Required Technical Courses (4 Courses)**

Complete all of the following courses:

- [SBMT1110](#) SBM Organizational Planning (2 Credits)
- [SBMT1120](#) SBM Business Systems (3 Credits)
- [SBMT1210](#) SBM Financial Systems (3 Credits)
- [SBMT1230](#) SBM Financial Analysis (3 Credits)

**Choose 7 credits from the following list: (7 Credits)**

- [SBMT2130](#) SBM Record Keeping (3 Credits)
- [SBMT2131](#) SBM Asset & Inventory Management (2 Credits)
- [SBMT2132](#) SBM A/R & A/P Management (2 Credits)
- [SBMT2133](#) SBM Reconciliation & Closing Accounts (2 Credits)
- [SBMT2134](#) SBM Payroll Systems (3 Credits)
- [SBMT2135](#) SBM Payroll Reports (2 Credits)
- [SBMT2136](#) SBM Year End Closing (1 Credit)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Visual Arts

• 60 Credits

AFA 2514/ AFA 3514

### Degree Description

South Central College's Associate of Fine Arts Degree (AFA) in Visual Arts is a combination of liberal arts courses and foundation courses in Art and Art History. The AFA provides first and second year art courses leading to the Bachelor of Fine Arts degree. Students desiring a two-year AFA degree for job placement or enhancement, as well as those returning to school for enrichment purposes, will also benefit from this degree. Studio Art majors will graduate with experience across a substantial number of studio disciplines and develop a strong, creative direction of their choosing. Students enrolling in this curriculum are urged to meet with an academic advisor each semester to review course selections and transfer plans.

An articulation agreement exists providing direct transfer into the Bachelor of Fine Arts degree at Minnesota State University, Mankato.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Visual Arts department. [See the Visual Arts department page for more details](#)

### Required Courses (11 Courses)

Complete the following courses:

- [ART 110](#) Art Structure (3 Credits)
- [ART 120](#) Metal Art (3 Credits)
- [ART 125](#) Sculpture (3 Credits)
- [ART 130](#) Painting (3 Credits)
- [ART 135](#) Introduction to Watercolor (3 Credits)
- [ART 140](#) Digital Photography (3 Credits)
- [ART 150](#) Drawing I (3 Credits)
- [ART 201](#) Art History I (3 Credits)
- [ART 202](#) Art History II (3 Credits)
- [ENGL100](#) Composition (4 Credits)
- [HUM 100](#) Critical Thinking (3 Credits)

### Portfolio Review (1 Course)

Choose the following course:

- [ART 290](#) ( Credit)

### Choose 3-4 credits from the following MnTC Goal Area 3 (3 Credits)

courses:

- [BIOL100](#) Introduction to Biology (4 Credits)
- [BIOL220](#) Human Anatomy (4 Credits)
- [BIOL225](#) Anatomy and Physiology I (4 Credits)
- [BIOL235](#) Anatomy and Physiology II (4 Credits)
- [BIOL230](#) Human Physiology (4 Credits)
- [BIOL240](#) Pathophysiology (3 Credits)
- [BIOL270](#) Microbiology (4 Credits)
- [CHEM101](#) The Chemistry of Everything (3 Credits)
- [CHEM108](#) Introduction to Chemistry (4 Credits)
- [CHEM110](#) Chemistry for the Health Sciences (4 Credits)
- [CHEM120](#) Principles of Chemistry I (5 Credits)
- [BIOL101](#) Introduction to Ecology (4 Credits)
- [CHEM220](#) Organic Chemistry I (5 Credits)
- [CHEM121](#) Principles of Chemistry II (5 Credits)
- [GEOG101](#) Introduction to Physical Geography (3 Credits)
- [GEOG104](#) Introduction to Weather and Climate (3 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)
- [PHYS211](#) Principles in Physics I (4 Credits)

### Additional Required Courses (9 Credits)

Up to nine additional credits will be taken at Minnesota State University, Mankato. See your Advisor for more information. The following courses at MSU-Mankato are recommended: ART 103 ART 202 ART 250

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

### Complete one of the following courses: (1 Course)

- [COMM110](#) Public Speaking (3 Credits)
- [COMM130](#) Intercultural Communication (3 Credits)
- [COMM140](#) Interpersonal Communication (3 Credits)

### Additional Liberal Arts and Sciences (6 Courses)

Choose 3 credits from the following MnTC Goal Area 5 courses: ( Credit)

- [GEOG103](#) Introduction to Cultural Geography (3 Credits)
- [GEOG200](#) Special Topics in Geography: (3 Credits)
- [HIST120](#) U.S. History I (4 Credits)
- [HIST121](#) U. S. History II (4 Credits)
- [HIST160](#) World History I (4 Credits)
- [HIST161](#) World History II: The Rise of the West (4 Credits)
- [HIST162](#) World History III: The Twentieth Century (4 Credits)
- [HIST205](#) Special Topics in History: (1 - 4 Credits)
- [POL 110](#) American Government (3 Credits)
- [PSYC100](#) Introduction to Psychology (4 Credits)
- [ANTH100](#) Introduction to Anthropology (4 Credits)
- [PSYC110](#) Lifespan Psychology (3 Credits)
- [PSYC140](#) Psychology of Positive Adjustment (4 Credits)
- [PSYC210](#) Social Psychology (4 Credits)
- [PSYC220](#) Health Psychology (4 Credits)
- [PSYC230](#) Abnormal Psychology (4 Credits)
- [PSYC240](#) Child and Adolescent Psychology (4 Credits)
- [PSYC250](#) Industrial Organizational Psychology (4 Credits)

[PHYS212](#) Principles in Physics II (4 Credits)  
[PHYS221](#) General Physics I (4 Credits)  
[PHYS222](#) General Physics II (4 Credits)

[PSYC280](#) Special Topics in Psychology: (4 Credits)  
[SOC 101](#) Introduction to Sociology (4 Credits)  
[SOC 106](#) Introduction to Criminal Justice (4 Credits)  
[ANTH121](#) Cultural Anthropology (4 Credits)  
[SOC 110](#) Social Problems (3 Credits)  
[SOC 201](#) Marriage and Family (3 Credits)  
[SOC 205](#) Special Topics in Sociology: (3 Credits)  
[SOC 206](#) Juvenile Delinquency (3 Credits)  
[SOC 210](#) Social Stratification - Who Gets What and Why? (3 Credits)  
[SOC 251](#) Criminology and Criminal Behavior (4 Credits)  
[SOC 259](#) Drugs and Society (3 Credits)

**Choose one course from MnTC Goal Areas 7,9 or 10 (1 Course)**

that is NOT in MnTC Goal Area 6. Course must be chosen in consultation with your Advisor.

## Welding

Diploma • 35 Credits

DIP 2258/ DIP 3285

### Degree Description

Students will learn the technical skills of various types of welding using various types of materials. They will learn critical safety skills, along with how to read mechanical drawings and prints specific to welding and applied math skills. Students will gain instruction and practice in the welding lab with Shielded Metal Arc, Tungsten Arc, Metal Arc, and plasma cutting and brazing. Students will also receive the Manufacturing Skills Standards Council (MSSC) Certified Production Technician credential, which allows students to show competency in Safety, Maintenance, Process & Production, and Quality Practices in a manufacturing setting.

### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the Welding department. [See the Welding department page for more details](#)

#### Required Technical Courses (14 Courses)

Complete all of the following courses:

- [WELD1006](#) Blueprint Reading for Welding (1 Credit)
- [WELD1045](#) Introduction to Gas Tungsten Arc Welding (3 Credits)
- [WELD1085](#) Welding Internship (2 Credits)
- [CMAE1514](#) Safety Awareness (2 Credits)
- [CMAE1518](#) Manufacturing Process and Production (2 Credits)
- [CMAE1522](#) Quality Practices (2 Credits)
- [CMAE1526](#) Maintenance Awareness (2 Credits)
- [WELD1011](#) Welding Safety (1 Credit)
- [WELD1025](#) Introduction to Shielded Metal Arc Welding (SMAW) (1 Credit)
- [WELD1035](#) Introduction to Gas Metal Arc Welding (GMAW) (2 Credits)
- [WELD1055](#) Cutting and Brazing (3 Credits)
- [WELD1065](#) Metallurgy (1 Credit)
- [WELD1075](#) Advanced Welding Lab (4 Credits)
- [MATH1050](#) Mathematics for Technical Careers (3 Credits)

#### Required Liberal Arts and Sciences (2 Courses)

Choose the following two courses:

- [COMM140](#) Interpersonal Communication (3 Credits)
- [PHYS101](#) Introductory Physics (3 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.

## Welding

### Certificate • 16 Credits

CERT2460/CERT3660

---

#### Degree Description

Here is a list of courses required to earn the Welding Certificate

#### Offered on the Faribault and North Mankato Campuses

The course requirements listed below are specific to the 2015-2016 school year. If you need to view the program from previous years view our [Catalog Archive](#).

This credential is part of the department. [See the department page for more details](#)

#### Required Technical Courses (8 Courses)

Complete all of the following courses:

- [WELD1006](#) Blueprint Reading for Welding (1 Credit)
- [WELD1011](#) Welding Safety (1 Credit)
- [WELD1025](#) Introduction to Shielded Metal Arc Welding (SMAW) (1 Credit)
- [WELD1035](#) Introduction to Gas Metal Arc Welding (GMAW) (2 Credits)
- [WELD1045](#) Introduction to Gas Tungsten Arc Welding (3 Credits)
- [WELD1055](#) Cutting and Brazing (3 Credits)
- [WELD1065](#) Metallurgy (1 Credit)
- [WELD1075](#) Advanced Welding Lab (4 Credits)

PLEASE NOTE: All program plans are preliminary and curriculum may change without notice. Your [catalog of record](#) may have different requirements.