

2019-2020 CATALOG ADDENDUM

Note change in total credit hours, New Course Name for AGRI 1205 & CHANGES TO CURRICULUM – EFFECTIVE 6/1/2019

AGRICULTURAL MECHANICS

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

A two-year program leading to an Associate in Applied Science Degree. The program is designed to prepare students for occupations involving the maintenance and repair of implements such as tractors, combines and other farm machinery. Upon completion of the curriculum, the student should have a thorough knowledge of engine and equipment repair, servicing, sales and management. Also upon completion, the student has the option to capstone into a participating four-year institution. ► Total = 72 69 Hours

First Semester Cr. Hrs. ☐ AGRI 1205 Assembling, Adjusting and Reconditioning Farm Equipment ☐ AGRI 1205 Assembly, Adjustment & Maintenance or **Machinery Reconditioning Restoration** 5 **AGRI 1207** ☐ AGRI 1208 **Diesel Engines** 6 ☐ AGRI 1215 Small Engines or 3 **AGRI 1225** Intro to Agriculture Mechanization ☐ ENGL 1101 Rhetoric and Composition I¹ 3 □ HEA 1101 **Health Education** HEA 1102 or Basic First Aid 19 17 **Second Semester** ☐ AGRI 1204 Physics of Hydraulics 5 4 **Supervised Occupational Experience** ☐ AGRI 1210 4 ☐ AGRI 1221 Intro to Agricultural Occupations 1 ☐ CSCI 1101 Intro to Computers or Intro to Computers w/ Business Applications **CSCI 1102** 3 ☐ COMM 1101 3 Principles of Effective Speaking ¹ **Basic Diesel Fuel Systems** ☐ DIEL 1202 2 15 17 Third Semester 5 ☐ AGRI 1203 Ignition and Electrical Systems ☐ AGRI 1222 Applied Mathematics 1-or 3 Elective - Math 1 3 MATH 3 ☐ AGRI 1285 **Agricultural Technologies** 4 ☐ AGRI 2201 **Transmission and Power Trains** ☐ DIEL 1204 Intermediate Diesels 4 19 Fourth Semester ☐ AGRI 1206 Ag Air Conditioning Systems 4 5 **Advanced Major Overhaul** ☐ AGRI 2204 Supervised Occupational Experience or ☐ AGRI 2210 **Advanced Electrical & Hydraulics** 4 **AGRI 2206** ☐ PSYC 2101 Introduction to Psychology-or 3

Introduction to Welding Processes

☐ AGRI 2210 Supervised Occupational Experience

15 16

4

PSYC 2106 Human Relations

RECOMMENDED COURSE:

Fifth Term

☐ WELD 1270

Note change in total credit hours, addition of AGRI 1206 – EFFECTIVE 6/1/2019

AGRICULTURAL MECHANICS

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

► Total = 27 30 Hours

| First Semes | ter | Cr. Hrs. |
|-------------|-----------------------------------|------------------|
| ☐ AGRI 1203 | Ignition and Electrical Systems | 5 |
| ☐ AGRI 1208 | Diesel Engines | 6 |
| ☐ AGRI 2201 | Transmission and Power Trains | _4 |
| | | 15 |
| Second Sem | nester | |
| ☐ AGRI 1204 | Physics of Hydraulics | 5 4 |
| ☐ AGRI 1206 | Ag Air Conditioning Systems | 4 |
| ☐ AGRI 2204 | Advanced Major Overhaul | 5 |
| ☐ DIEL 1202 | Basic Diesel Fuel Systems | _2 |
| | | 12 15 |
| RECOMMI | ENDED ELECTIVES | |
| ☐ AGRI 1215 | Small Engines | 3 |
| ☐ AGRI 1285 | Agriculture Technologies | 3 |
| ☐ WELD 1270 | Introduction to Welding Processes | 4 |
| | | |

¹ Prerequisite course(s) may be required based on test scores.

² See Division Chairperson for list of approved courses.

BUSINESS

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

This two-year program leads to an Associate in Applied Science Degree in Business with specializations in finance or management. The curriculum is designed to provide students with a general background in all areas of business and to prepare them for careers in the fields of banking, accounting, management or marketing at the mid-management level in a variety of businesses and industries. The curriculum also provides those individuals already in positions in the local workforce the opportunity to upgrade job skills or advancement potential. ▶ Total = 64 Hours

| First Semes | ter | Cr. Hrs. |
|--------------------|--|----------|
| □ BUSI 1101 | Introduction to Business | 3 |
| ☐ BUSI 2102 | Customer Service or | |
| OFTC 1234 | Communication in Technical Services | 3 |
| ☐ CSCI 1102 | Intro to Computers w/ Business Application | ns 3 |
| □ ENGL 1101 | Rhetoric and Composition I ¹ | 3 |
| □ MATH 1202 | Business Math or | |
| MATH 1201 | Technical Math † | 3 |
| □ OFTC 1233 | Office Accounting | _3 |
| | | 15 |
| Second Sem | ester | |
| □ BUSI 2107 | Business Communications | 3 |
| □ BUSI 2207 | Business Organization | 3 |
| ☐ ECON 1101 | Intro to Economics | 3 |
| ☐ MATH 1202 | Business Math <i>or</i> | |
| MATH 1201 | Technical Math ¹ | 3 |
| ☐ OFTC 1206 | Computerized Accounting w/ QuickBooks | 1 |
| ☐ OFTC 1233 | Office Accounting | 3 |
| | Elective – Core | _3 |
| | | 16 |
| Third Semes | ster | |
| ☐ BUSI 2105 | Legal / Social Environment of Business | 3 |
| ☐ BUSI 2206 | Business Dynamics | 3 |
| ☐ MGMT 2201 | Principles of Management | 3 |
| ☐ MRKT 2201 | Principles of Marketing | 3 |
| | Elective – Core | 3 |
| | Elective – Core | _3 |
| | | 18 |
| Fourth Sem | ester | |
| ☐ BUSI 2203 | Business Ethics or | |
| PHIL 2104 | Ethics | 3 |
| ☐ CSCI 1263 | Microsoft Excel | 3 |
| □-CSCI 1275 | Microsoft PowerPoint | 3 |
| ☐ MGMT 2207 | Supervision | 3 |
| | Elective – Core | 3 |
| | Elective – Core | _3 |
| | | 15 |
| 1 Prerequisite cou | irse(s) may be required based test scores | |

Prerequisite course(s) may be required based test scores.

CORE ELECTIVE SELECTION

The student must choose any combination of the courses listed below for a total of 15 credit hours to complete the 64 credit hours required for the Associate of Applied Science Degree.

ACCOUNTING / FINANCIAL FOCUS

ACCO 1102 – Principles of Managerial Accounting (4)
ACCO 1202 – Payroll Accounting (2)
ACCO 2201 – Intermediate Accounting I (3)
BUSI 1103 – Business Law I (3)
COOP 1101 – Cooperative Education II (.5 – 4)
COOP 2101 – Cooperative Education II (.5 – 4)
ECON 2101 – Principles of Economics I (3)
ECON 2102 – Principles of Economics II (3)
MGMT 2207 – Supervision (3)
MATH 1108 – College Algebra (3)
MATH 1111 – Statistics (4)
MATH 2115 – Business Calculus (4)

ACCO 1101 - Principles of Financial Accounting (4)

MANAGEMENT / HUMAN RESOURCE FOCUS BUSI 1103 - Business Law I (3) BUSI 2101 - Business Law II (3) BUSI 2205 - E-Commerce (3) BUSI 2208 - Intercultural Business (3) BUSI 2209 - Inventory Management (3) COMM 1101 – Principles of Effective Speaking (3) COOP 1101 - Cooperative Education I (.5 -4) COOP 2101 - Cooperative Education (.5 - 4) MGMT 2201 - Principles of Management (3) MGMT 2207 - Supervision (3) PSYC 2101 - Introduction to Psychology (3) PSYC 2104 - Personality Dynamics (3) PSYC 2106 - Human Relations (3) SOCI 1101 - Introduction to Sociology (3) **MARKETING FOCUS** GRD 1201 - Intro to Graphic Design (3) GRD 1203 - Advertising Design (3)

GRD 1201 – Intro to Graphic Design (3) GRD 1203 – Advertising Design (3) GRD 1215 – Web Page Design (3) GRD 2201 – Adobe Essentials (3) GRD / UAS Elective (3)

FACILITY MANAGEMENT

Occupational Certificate

This certificate is designed to prepare students for entry-level occupations involving the management of organizations' physical assets. Upon completion of the curriculum, students should have basic knowledge of building codes, building design and construction, mechanical and electrical systems operations, landscaping and grounds management and asset management. A wide variety of career opportunties exist for individuals to be employed in manufacturing plants, hospitals, high-rise buildings, educational institutions, and recreation centers, as well as hotels and motels. > Total = 33 Hours

| First Semest | ter (| Cr. Hrs. |
|--------------|--|----------|
| ☐ ARCH 1212 | Architectural Construction Systems | 3 |
| ☐ ARCH 2215 | Mechanical & Electrical Systems | 3 |
| ☐ ARCH 2226 | Architectural Documents & Cost Estimating | 3 |
| ☐ FMGT 1201 | Intro to Facility Management | 3 |
| ☐ IST 1221 | Industrial Safety | 2 |
| ☐ MATH 1201 | Technical Math | _3 |
| | | 17 |
| Second Sem | ester | |
| ☐ ARCH 1209 | Architectural Building Tech | 3 |
| □ ARCH 2227 | Architectural Building Codes | 3 |
| ☐ CSCI 1102 | Intro to Computers w/ Business Application | s 3 |
| ☐ GFM 1201 | Plan & Develop Green Facilities | 4 |
| ☐ HORT 1201 | Intro to Horticulture | _3 |
| | | 16 |

HEAVY EQUIPMENT TECHNOLOGY

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

A two-year program leading to an Associate in Applied Science Degree. The program is designed to prepare students for occupations involving the maintenance and repair of heavy duty trucks and equipment. Upon completion of the curriculum, the student should have a thorough knowledge of engine and brake repair, servicing, sales and alignment. Also upon completion, the student has the option to capstone into a participating four-year institution. \blacktriangleright Total = 72 Hours

| First Semes | ter | Cr. Hrs. |
|------------------------|---|------------------|
| ☐ AGRI 1208 | Diesel Engines | 6 |
| ☐ CSCI 1101 | Intro to Computers | 3 |
| ☐ DIEL 1208 | Diesel Accessories | 2 |
| ☐ ENGL 1101 | Rhetoric and Composition I 1 | 3 |
| ☐ HEQT 1201 | Heavy Equipment Maintenance | _4 |
| | | 18 |
| Second Sem | nester | |
| □ AGRI 1204 | Physics of Hydraulics | 5 4 |
| ☐ AGRI 1221 | Intro to Agriculture Occupations | 1 |
| □ COMM 1101 | Principles of Effective Speaking | 3 |
| ☐ DIEL 1205 | Heavy Equipment Brakes | 3 |
| ☐ HEQT 1208 | Fundamentals of Machine Electronics | 3 |
| ☐ HEQT 1211 | Engine Fuel Systems | _3 |
| | | 18 17 |
| Third Seme | ster | |
| □ AGRI 1222 | Applied Mathematics 1———————————————————————————————————— | |
| MATH | or Elective – Mathematics † | 3 |
| □ AGRI 2201 | Transmissions and Power Trains | 4 |
| ☐ DIEL 1204 | Intermediate Diesels | 4 |
| ☐ HEQT 2203 | Machine Systems Electronics | 3 |
| □ PSYC 2101 | Introduction to Psychology | |
| — PSYC 2106 | or Human Relations | _3 |
| | | 17 |
| Fourth Sem | | |
| ☐ AGRI 2204 | Advanced Major Overhaul | 5 |
| ☐ DIEL 1203 | Heavy Equipment Alignment | 4 |
| ☐ HEQT 1209 | Heating, Ventilation and A/C | 2 |
| ☐ HEQT 1210 | Supervised Occupational Experience | 4 |
| ☐ HEQT 2205 | Undercarriage & Final Drives | 3 |
| ☐ HEQT 2207 | Machine Systems Diagnosis & Troublesho | _ |
| | | 19 18 |

- ¹ Prerequisite course(s) may be required based test scores.
- ² See Division Chairperson for list of approved courses.

New certificate - effective 6/1/2019

HEAVY EQUIPMENT TECHNOLOGY

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

This certificate is designed to prepare students for entry-level occupations involving maintenance and repair of heavy duty trucks and equipment. Upon completion of the curriculum, the students should have basic knowledge of engine, brakes, servicing and undercarriage. ▶ Total = 29 Hours

| First Semes | ter | Cr. Hrs. |
|-------------|-------------------------------------|----------|
| ☐ AGRI 1208 | Diesel Engines | 6 |
| ☐ DIEL 1208 | Diesel Accessories | 2 |
| ☐ AGRI 2201 | Transmissions and Power Trains | 4 |
| ☐ HEQT 1201 | Heavy Equipment Maintenance | _4 |
| | | 16 |
| Second Sem | iester | |
| ☐ AGRI 1204 | Physics of Hydraulics | 4 |
| ☐ DIEL 1205 | Heavy Equipment Brakes | 3 |
| ☐ HEQT 1208 | Fundamentals of Machine Electronics | 3 |
| ☐ HEQT 1211 | Engine Fuel Systems | _3 |
| | | 13 |
| | | |

Change I curriculum & total credit hours – effective 6/1/2019

IT SYSTEMS ASSISTANT

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

MICROSOFT USER CERTIFICATE

This certificate program prepares students and professionals by concentrating on the Microsoft Office Suite, namely Word, Excel, PowerPoint, and Access. Topics covered in these courses help prepare the student for work using the various products as well as participation in the Microsoft Certified Application Specialist exams. Exams are not included in this program. ► Total = #5 16 Hours

| First Semester (Fall) | | Cr. Hrs. |
|--------------------------|------------------------------------|----------------|
| ☐ BUSI 1200 | Job Strategy | 1 |
| ☐ CSCI 1243 | Beginning Microsoft Word | 3 |
| ☐ CSCI 1263 | Microsoft Excel Spreadsheet | _3 |
| | | 6 7 |
| Second Semester (Spring) | | |
| □ CSCI 1236 | Integrating Technologies | 2 |
| ☐ CSCI 1255 | Microsoft Access Database | 3 |
| ☐ CSCI 1275 | Microsoft PowerPoint | 3 |
| □-CSCI 2245 | Integrating Microsoft Applications | 3 |
| ☐ SERV 1101 | Service Learning | _1 |
| | | 9 |

NOTE: Students must be able to type 25 words per minute.

NURSING

Associate in Applied Science Degree

ALLIED HEALTH DIVISION

The Nursing program is designed to provide a career mobility path for individuals interested in health care. The curriculum is a concept-based method of instruction emphasizing critical thinking, problem solving, decision making, clinical reasoning and nursing judgment. Graduates will be prepared to practice professional nursing in a variety of health care settings.

Students must achieve a grade of "C" or better in each course, as well as demonstrate competency in dosage calculations and math skills. The Illinois Department of Financial and Professional Regulation approves this program. Upon graduation, the student is eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students who prefer to test out at the practical nurse level may do so after completing the first two semesters of listed coursework and then completing NURS 1212 - Practical Nurse Role Development (4 credit hours). ► Total = 64-65 Hours

PREREQUISITES

☐ CNA 1201 **Certified Nurse Assistant** 7 ☐ ENGL 1101 Rhetoric and Composition I¹ 3 Both must be completed with a grade of "C" or better

Competency in math (see admission requirements) A criminal history background check & drug testing are required.

NURSING COURSES

Each course in the curriculum must be completed with a grade of "C" or better to meet program requirements.

| First Semes □ NURS 1200 | ster Intro to Health Concepts | Cr. Hrs. |
|--------------------------|---|----------------|
| ☐ NURS 1200 | Intro to Health Concepts Intro to Health Concepts Clinical | 1 |
| ☐ NURS 1201 | Health – Illness Concepts | 4 |
| ☐ NURS 1202 | Health – Illness Concepts Clinical | 2 |
| ☐ NURS 1204 | Tools for Nursing Education | 2 |
| □ ZOO 1105 | Anatomy & Physiology I 1,2 | |
| | , | <u>4</u> 17 |
| Second Sen | nester | |
| ☐ NURS 1205 | Family Health Concepts | 3 |
| ☐ NURS 1206 | Family Health Concepts Clinical | 2 |
| □ NURS 1207 | Holistic Health Concepts | 3 |
| ☐ NURS 1208 | Holistic Health Concepts Clinical | 2 |
| ☐ NURS 1209 | Pharmacology | 2 |
| □ ZOO 1106 | Anatomy & Physiology II 1,2 | <u>4</u> 16 |
| m. 10 | | 16 |
| Third Seme | | |
| ☐ MICR 1101 | Basic Microbiology ² | 4 |
| ☐ NURS 1214 | Medications in Nursing | 2 |
| ☐ NURS 2212 | Health Care Concepts | 3 2 3 |
| □ NURS 2213 | Health Care Concepts Clinical | 2 |
| □ NURS 2214 | Health Systems Concepts | |
| ☐ NURS 2215 | Health Systems Concepts Clinical | <u>2</u> 16 |
| Fourth Sen | aetar | 10 |
| □ NURS 2201 | Registered Nurse Review Course | 2 |
| □ NURS 2216 | Complex Health Concepts | 6 |
| □ NURS 2217 | Complex Health Concepts Clinical | 4 |
| ☐ PSYC 2101 | Intro to Psychology | 3 |
| _ : 0 : 0 = : 0 : | , , | <u>3</u> 15 |
| | | |

¹ Prerequisite course(s) may be required based on test scores.

This nursing education program is a candidate for accreditation by the Accreditation Commission for Education in Nursing.

Accreditation Commission for Education in Nursing (ACEN) 3343 Peachtree Road NE, Suite 850 Atlanta, GA 30326 404-975-5000 https://www.acenursing.us/candidates/candidacy.asp

ZOO 1105 & 1106 and MICR 1101 or 1111 must have been completed within the last five years.

OFFICE SYSTEMS TECHNOLOGY ~ MEDICAL OFFICE SPECIALIST

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

This two-year program leads to the AAS Degree in Office Systems Technology / Medical Office Specialist. With its focus on essential administrative and technology-related tasks, the student will be prepared to become an effective and important member of any medical office environment. Graduates may fulfill roles such as office manager, medical secretary, medical transcriptionist and receptionist. The curriculum also may assist those already employed by enhancing existing skills and therefore providing advancement potential. Upon completion of the degree, the student may apply for both the 30-hour and 10-hour medical office certificates. > Total = 64 Hours

| First Semes | ter | Cr. Hrs. |
|-------------|--|--|
| □ CSCI 1243 | Beginning Microsoft Word | 3 |
| □ OFTC 1203 | Building Keyboarding Speed/Accuracy I | 1 |
| □ OFTC 1232 | Business Data Entry | 3 |
| □ OFTC 1280 | Medical Terminology ³ | 3 |
| □ OFTC 1281 | Medical Transcription 3 | 3 |
| ☐ PSYC 2101 | Introduction to Psychology 2 | |
| PSYC 2106 | or Human Relations ² | 3 |
| | | 16 |
| Second Sem | nester | |
| □ CSCI 1102 | Intro to Computers w/ Business Application | ns 3 |
| □ CSCI 2243 | Intermediate Microsoft Word | 3 |
| □ ENGL 1101 | Rhetoric & Composition I * | 3 |
| □-OFTC 1204 | Building Keyboarding Speed/Accuracy II | 1 |
| □ OFTC 1233 | Office Accounting | 3 |
| □ OFTC 1252 | Records Management Concepts | |
| | / Computerized Applications | 3 |
| | | 16 |
| Summer Te | | |
| □ OFTC 2291 | Cooperative Experience I | |
| BUSI 2203 | or Business Ethics | 3 |
| Third Seme | ster | |
| □ ALH 1201 | Anatomy & Physiology Fundamentals | 3 |
| □ CSCI 1263 | Beginning Microsoft Excel | 3 |
| □ MEDC 1206 | Intro to Medical Coding | _ |
| | or Billing & Coding | 3 |
| □ OFTC 1234 | Communication in Technical Services | 3 |
| □ OFTC 2261 | Office Procedures and Technology | 3 |
| | | —————————————————————————————————————— |
| -Fourth Sem | ester | |
| □ BUSI 1200 | Job Strategy | 1 |
| □ BUSI 1202 | Work Ethics | 1 |
| □ BUSI 2107 | Business Communications | 3 |
| □ COMM 1101 | Principles of Effective Speaking | 3 |
| □ CSCI 1255 | Beginning Microsoft Access | 3 |
| □ MATH 1202 | Business Mathematics 1,2 | |
| MATH 1107 | or Contemporary College Math | 3 |
| | 1 | |
| -RECOMMI | ENDED ELECTIVE | |
| □ CSCI 1236 | Integrating Technologies | 2 |
| | 2 2 2 | |

^{*-} Prerequisite course(s) may be required based test scores.

² Talk to an advisor if transferring to a four-year institution.

^{3—}In order to complete OFTC 1280 and OFTC 1281 in one semester, students must enroll in consecutive 8-week sessions.

OFFICE SYSTEMS TECHNOLOGY ~ MEDICAL OFFICE ASSISTANT

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

This one-year certificate curriculum is designed to provide students with the technical skills necessary for an entry-level position in any medical office environment. Students will be trained in the areas of keyboarding, office technology, medical terminology, transcription and billing / coding. ▶ Total = 30 Hours

Prerequisite: Completion with a "C" or better - CSCI 1101 or OFTC 1202 - or consent of division chair.

| First Semest | ter | Cr. Hrs. |
|--------------------------|--|---------------|
| □-CSCI 1243 | Beginning Microsoft Word | 3 |
| □ MEDC 1206 | Intro to Medical Coding | |
| | or Billing & Coding | 3 |
| □-OFTC 1203 | Building Keyboarding Speed/Accuracy I | 1 |
| □-OFTC 1232 | Business Data Entry | 3 |
| □-OFTC 1280 | Medical Terminology 2 | 3 |
| □ -OFTC 1281 | Medical Transcription ² | 3 |
| | | 16 |
| -Second Sem | ester | |
| □ BUSI 1202 | Work Ethics | 1 |
| □ MATH 1202 | Business Mathematics † | |
| MATH 1107 | or Contemporary College Math | 3 |
| □ -OFTC 1204 | Building Keyboarding Speed / Accuracy II | 1 |
| □-OFTC 1233 | Office Accounting | 3 |
| □-OFTC 1252 | Records Management Concepts / | |
| - | Computerized Applications | 3 |
| □ PSYC 2101 | Intro to Psychology | |
| | or Human Relations | 3 |
| | | 14 |
| DECOMMI | ENDED ELECTIVE | |
| | | 2 |
| L - CSCI 1236 | Integrating Technologies | |

⁺ Prerequisite course(s) may be required based on test scores.

NEW CERTIFICATE - EFFECTIVE 6/1/2019

OFFICE SYSTEMS TECHNOLOGY ~ MEDICAL SUPPORT SPECIALIST

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

This one semester certificate program is designed to prepare students with the knowledge and skills necessary for an entry-level position in medical offices, hospitals, and other healthcare facilities. Students will be trained in basic computer skills, proper medical terminology, customer service communication, and medical billing and coding. > Total = 16 Hours

| First Semes | ter Cr. 1 | Hrs. |
|-------------|--|------|
| ☐ ALH 1205 | Clinical Experience | 3 |
| ☐ BUSI 1202 | Work Ethics | 1 |
| ☐ CMA 1203 | Billing & Coding | 3 |
| ☐ CSCI 1102 | Intro to Computers w/Business Applications | 3 |
| ☐ HECO 1202 | Health Care Terminology | 3 |
| ☐ OFTC 1234 | Communication in Technical Services | _3 |
| | | 16 |

In order to complete OFTC 1280 and OFTC 1281 in one semester, students must enroll in consecutive 8-week sessions.

OFFICE SYSTEMS TECHNOLOGY - MEDICAL OFFICE ASSOCIATE

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

This certificate is designed to provide students with the basic information needed to pursue an entry-level position in a medical office setting or enhance the skills of the already-employed medical office staff. ➤ Total = 10 Hours

Prerequisite: CSCI 1101, or OFTC 1202, or OFTC 2201 with "C" or better or 35 words/minute, or consent of instructor

| First Semes | tor | Cr. Hrs. |
|-------------------------|-----------------------------------|---------------|
| That semes | tei | CI. 1113. |
| □ BUSI 1202 | Work Ethics | 1 |
| □ MEDC 1206 | Intro to Medical Coding or | |
| | Billing & Coding | 3 |
| □ -OFTC 1280 | Medical Terminology † | 3 |
| □ -OFTC 1281 | Medical Transcription + | |
| | | 10 |
| RECOMMI | ENDED ELECTIVE | |
| □ -CSCI 1236 | Integrating Technologies | 2 |

In order to complete OFTC 1280 and OFTC 1281 in one semester, studentsmust enroll in consecutive 8-week sessions.

OFFICE SYSTEMS TECHNOLOGY ~ OFFICE SYSTEMS TECHNOLOGY SPECIALIST

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

The two-year Office Systems Technology Specialist curriculum is designed to provide students with the background in technical skills and general studies necessary for a career as an administrative assistant, technical services associate or similar position. Students will focus on the concepts and methods used to organize and manage information as well as the development or enhancement of skills necessary to effectively implement technology into the office and / or business setting. Technology include, but are not limited to, word processing, spreadsheet, database and presentation software, information managing software, web page editors and social media. > Total = 64 Hours

| First Semes | ter | C r. Hrs. |
|-------------------------|--|----------------------|
| □-CSCI 1102 | Intro to Computers w/ Business Application | ıs 3 |
| □ CSCI 1243 | Beginning Microsoft Word 3 | 3 |
| □ ENGL 1101 | Rhetoric and Composition I+ | 3 |
| □ OFTC 1203 | Building Keyboarding Speed & Accuracy I | 1 |
| □ OFTC 1232 | Business Data Entry | 3 |
| □ PSYC 2101 | Introduction to Psychology | |
| PSYC 2106 | <i>or</i> Human Relations | 3 |
| | | 16 |
| -Second Sen | nester | |
| □ BUSI 1202 | Work Ethics | 1 |
| □-CSCI 2243 | Intermediate Microsoft Word | 3 |
| ☐ MATH 1202 | Business Mathematics 1,-2 | |
| MATH 1107 | or Contemporary College Mathematics | 3 |
| □ OFTC 1204 | Building Keyboarding Speed/Accuracy II | 1 |
| □ OFTC 1206 | Computerized Accounting with QuickBook | s 1 |
| □ OFTC 1233 | Office Accounting | 3 |
| □ OFTC 1252 | Records Management Concepts | |
| | / Computerized Applications | 3 |
| | | 15 |
| -Summer Te | | |
| □ OFTC 2291 | Cooperative Experience I | |
| — BUSI 2203 | or Business Ethics | 3 |
| | | |
| -Third Seme | ster | |
| □ BUSI 2107 | Business Communications | 3 |
| □-COMM 1101 | Principles of Effective Speaking | 3 |
| □ CSCI 1263 | Beginning Microsoft Excel 3 | 3 |
| □ -OFTC 1234 | Communication in Technical Services | 3 |
| □ -OFTC 2261 | Office Procedures and Technology | 3 |
| | | 15 |
| -Fourth Sem | ester | |
| □ BUSI 1200 | Job Strategy | 1 |
| □ CSCI 1236 | Integrating Technologies | 2 |
| □-CSCI 1255 | Beginning Microsoft Access-3 | 3 |
| □-CSCI 1275 | Microsoft PowerPoint 3 | 3 |
| □ CSCI 2245 | Integrating Microsoft Applications 3 | 3 |
| □ OFTC 2265 | Office Supervision & Administration | 3 |
| | | 15 |

^{†—}Prerequisite course(s) may be required based test scores.

² Talk to an advisor if transferring to a four-year institution.

^{3—}Successfully completing these five classes results in the Microsoft User Certificate. See the description under the IT Systems Assistant heading for more information.

MANUFACTURING TECHNOLOGY

MANUFACTURING TECHNOLOGY

Associate in Applied Science Degree

APPLIED SCIENCE & TECHNOLOGY DIVISION

The Manufacturing Technology program is designed to prepare graduates for supervisory or technical positions in manufacturing. Curriculum requirements are broad-based to enable graduates to obtain employment in a wide variety of manufacturing areas, such as the Manufacturing Skill Standards Council (MSSC) industry-recognized credentialing system which covers the four critical production functions common to all sectors of manufacturing. The technician will develop a fundamental knowledge of materials, manufacturing process, quality processes, and computer, electrical, mechanical and machine control systems related to manufacturing disciplines. > Total = 64 Hours

| First Semes | ter | Cr. Hrs. |
|-------------|---------------------------------------|--------------|
| ☐ ENGL 1101 | Rhetoric & Composition I 1 | 3 |
| ☐ MACH 1201 | Machine Technology I | 4 |
| ☐ MATH 1201 | Technical Math 1 | 3 |
| ☐ MFG 1207 | Safety | 3 |
| ☐ MFG 1210 | Quality Practices & Measurement | <u>3</u> |
| □ MFG 1208 | Manufacturing Processes & Production | 3 |
| | | 16 |
| Second Sem | ester | |
| ☐ INEL 1291 | Basic Electronics for Technicians | 5 |
| ☐ IST 2230 | Introduction to PLCs | 3 |
| ☐ MACH 1202 | Machine Technology II | 4 |
| ☐ MFG 1208 | Manufacturing Processes & Production | |
| ☐ MFG 1209 | Maintenance Awareness | 3 |
| ☐ MFG 1210 | Quality Practices & Measurement | <u>3</u> |
| | | 18 |
| Third Seme | ster | |
| ☐ CSCI 1101 | Introduction to Computers | 3 |
| ☐ IST 2231 | Advanced PLCs | 3 |
| ☐ MFG 1230 | Blueprint Reading | 3 |
| ☐ WELD 1270 | Introduction to Welding Processes | _4 |
| | | 13 |
| Fourth Sem | ester | |
| ☐ COMM 1101 | Principles of Effective Speaking | 3 |
| ☐ FLPR 1262 | Fluid Power Fundamentals | 5 |
| ☐ INEL 1250 | Electric Motors & Control Circuits | 6 |
| □ PSYC 2106 | Human Relations | _3 |
| | | 17 |
| Technical E | lectives | |
| ☐ IST 1230 | Intro to Robotics | 3 |
| ☐ MACH 1203 | Machine Technology III | 3 |
| ☐ MACH 1205 | Special Problems in Machining | 3 |
| ☐ MFG 1200 | Manufacturing Employment Skills | 3 |
| ☐ WELD 1272 | Structural Shielded Metal Arc Welding | 4 |
| ☐ WELD 1282 | GMAW / GTAW Welding | 4 |
| | | |

¹ Prerequisite course(s) may be required based test scores.

Occupational Certificate

1

NOTE REVISED COURSE SEQUENCE AND NEW NOTE.

APPLIED SCIENCE & TECHNOLOGY DIVISION

CERTIFIED PRODUCTION TECHNICIAN

The Manufacturing Skill Standards Council (MSSC) industry-recognized credentialing system leading to a certified production technician covers the four critical production functions common to all sectors of manufacturing. This program provides the foundational knowledge and skill sets applicable for entry- to midlevel production technician jobs in the manufacturing industry. It is designed for individuals wanting to enter the manufacturing field as production line workers as well as experienced employees wishing to seek MSSC certification. Students must receive a "C" or better in all courses. ightharpoonup Total = 16 Hours

| First Semester | | Cr. Hrs. |
|----------------|--------------------------------------|----------|
| ☐ MFG 1207 | Safety | 3 |
| ☐ MFG 1210 | Quality Practices & Measurement | 3 |
| ☐ MFG 1208 | Manufacturing Processes & Production | 3 |
| ☐ MFG 1209 | Maintenance Awareness | 3 |
| □ MFG 1210 | Quality Practices & Measurement | 3 |
| | Technical Elective(s) | _4 |
| | | 16 |

NOTE: MFG courses must be taken in listed sequence.

GRAPHIC DESIGN

Associate in Applied Science Degree APPLIED SCIENCE & TECHNOLOGY DIVISION

Graphic design includes planning, analyzing and creating visual solutions to communication problems. Graphic designers use print, electronic and film media while using a variety of methods such as color, type, illustration, photography, animation and various print and layout techniques. Graphic designers develop the overall layout and production design of magazines, newspapers, journals, corporate reports and other publications. They also produce promotional displays, packaging, marketing brochures for products and services, and logos for products and business, and develop signs / signage for systems for design, interactive media, multimedia projects and may also create the opening and closing credits of movies and television programs. Surveys of area businesses indicate a demand for graduates of this two-year Associate in Applied Science Degree program.

Total = 67 Hours

| First Semes | ter (| Cr. Hrs. |
|-----------------|---|------------|
| GRD 1205 | Drawing for Communications (option) | 3 |
| ENGL 1101 | Rhetoric and Composition I | 3 |
| GRD 1201 | Introduction to Graphic Design | 3 |
| GRD 1202 | Typography and Color Theory | 3 |
| GRD 2201 | Adobe Essentials I | 3 |
| GRD 1208 | History of Graphic Design - moved | <u>_3</u> |
| | | 18 |
| Second Sem | nester | |
| GRD 1215 | Web Page Design | 3 |
| COMM 1101 | Principles of Effective Speaking | 3 |
| GRD 1203 | Advertising Design | 3 |
| GRD 1206 | Production Methods (credit hour increase | se) 3 |
| GRD 2215 | Adobe Essentials II | <u>3</u> |
| | | 15 |
| Third Seme | ster | |
| ENGL 1102 | Rhetoric and Composition II | 3 |
| GRD 2208 | Electronic Prepress | 3 |
| GRD 2209 | Computer Type Design | 3 |
| GRD 2220 | Adobe Essentials III | 3 |
| MATH | Math Elective (moved) | 3 |
| PSYC 2101 | Introduction to Psychology (moved)-option | 1 <u>3</u> |
| | | 18 |
| Fourth Sem | ester | |
| ARCH 2207 | Rendering | 4 |
| GRD 2204 | Portfolio Review | 3 |
| | Technical Elective | 3 |
| GRD 2203 | Digital Illustration | 3 |
| GRD 2218 | Package Design | <u>3</u> |
| | | 16 |

VISUAL COMMUNICATION DESIGN

Associate in Applied Science Degree APPLIED SCIENCE & TECHNOLOGY DIVISION

Visual Communication Design includes planning, analyzing and creating visual solutions to communication problems. Graphic designers use print, electronic and film media while using a variety of methods such as color, type, illustration, photography, animation and various print and layout techniques. Graphic designers develop the overall layout and production design of magazines, newspapers, journals, corporate reports and other publications. They also produce promotional displays, packaging, marketing brochures for products and services, and logos for products and business, and develop signs / signage for systems for design, interactive media, multimedia projects and may also create the opening and closing credits of movies and television programs. Surveys of area businesses indicate a demand for graduates of this two-year Associate in Applied Science Degree program.

Total = 67 Hours

| Fall Semeste | er | Cr. Hrs. |
|--------------|---|----------|
| ☐ ART 1105/ | Drawing I | |
| GRD 1205 | Drawing for Communications | 3 |
| ☐ ENGL 1101 | Rhetoric and Composition I | 3 |
| ☐ GRD 1201 | Introduction to Graphic Design | 3 |
| ☐ GRD 1202 | Typography and Color Theory | 3 |
| ☐ GRD 2201 | Adobe Essentials I | 3 |
| □ MATH | Math Elective | _3 |
| | | 18 |
| Spring Seme | ester | |
| ☐ GRD 1215 | Web Page Design | 3 |
| □ COMM 1101 | Principles of Effective Speaking | 3 |
| ☐ GRD 1203 | Advertising Design | 3 |
| ☐ GRD 1206 | Production Prepress | 4 |
| ☐ GRD 2215 | Adobe Essentials II | 3 |
| ☐ GRD 1209 | Motion Design I | <u>3</u> |
| | | 19 |
| Fall Semeste | er | |
| □ GRD 2205 | Motion Design II | 3 |
| □ GRD 2206 | Motion Design III | 3 |
| ☐ GRD 2209 | Computer Type Design | 3 |
| ☐ GRD 2220 | Adobe Essentials III | 3 |
| ☐ GRD 1220 | Advanced Web Design or | |
| ☐ MRKT 2201 | Principles of Marketing | <u>3</u> |
| | | 15 |
| Spring Seme | | |
| ☐ CSCI 1102 | Intro to Computers w/ Business Applications | |
| □ GRD 2204 | Portfolio Review | 3 |
| ☐ BUSI 2107/ | Business Communications/ | |
| □ PSYC 2101 | Introduction to Psychology | 3 |
| ☐ GRD 2203 | Digital Illustration | 3 |
| ☐ GRD 2218 | Package Design | _3 |
| | | 15 |

GRAPHIC DESIGN

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

► Total = 33 Hours

| First Semes | ter | Cr. Hrs. |
|-------------|--------------------------------|----------|
| ☐ GRD 1201 | Introduction to Graphic Design | 3 |
| ☐ GRD 1202 | Typography and Color Theory | 3 |
| ☐ GRD 2201 | Adobe Essentials I | _3 |
| | | 9 |
| Second Sem | ester | |
| ☐ GRD 1203 | Advertising Design | 3 |
| □ GRD 1206 | Production Methods I | 3 |
| ☐ GRD 2215 | Adobe Essentials II | _3 |
| | | 9 |
| Third Seme | ster | |
| ☐ GRD 2208 | Electronic Prepress | 3 |
| □ GRD 2220 | Adobe Essentials III | 3 |
| | | 6 |
| Fourth Sem | ester | |
| ☐ GRD 1215 | Web Page Design | 3 |
| ☐ GRD 2204 | Portfolio Review | 3 |
| □ GRD 2218 | Package Design | 3 |
| | 5 5 | 9 |

MARKETING SPECIALIST

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

The Marketing Specialist certificate prepares students for an entry-level career in marketing for business and industry- helping companies figure out what sells, what people are buying, and what type of people are buying what products. The curriculum also provides individuals with skills to create graphics to illustrate important information and translate complex findings and materials into easy-to-understand graphic solutions, brainstorm with team members for creative promotional campaigns and advertising while using appropriate channels and media outlets.

► Total = 24 Hours

| First Semes | ter | Cr. Hrs. |
|------------------|--------------------------------|----------|
| GRD 1201 | Introduction to Graphic Design | 3 |
| GRD 1202 | Typography and Color Theory | 3 |
| GRD 2201 | Adobe Essentials I | 3 |
| MRKT 2201 | Principles of Marketing | <u>3</u> |
| | | 12 |
| Second Sem | ester | |
| GRD 1203 | Advertising Design | 3 |
| GRD 1215 | Web Page Design | 3 |
| GRD 2215 | Adobe Essentials II | 3 |
| BUSI 2107 | Business Communications | <u>3</u> |
| | | 12 |

Stackable into Visual Communication Design AAS and Business AAS.

REVISED CERTIFICATE - EFFECTIVE 7/1/2019

GRAPHIC TECHNICIAN

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

The Graphic Technician Certificate program prepares students for employment requiring design responsibilities in a variety of organizational settings. The curriculum partners the necessary knowledge of design techniques with skills needed to be successful in business settings through enhanced communications skills and a working knowledge of office systems software.

► Total = 39 Hours

| First Semest | er | Cr. Hrs. |
|--------------|---|----------|
| GRD 1201 | Introduction to Graphic Design | 3 |
| GRD 1202 | Typography and Color Theory | 3 |
| GRD 2201 | Adobe Essentials I | <u>3</u> |
| | | 9 |
| Second Sem | ester | |
| GRD 1203 | Advertising Design | 3 |
| GRD 1206 | Production Methods I | 3 |
| GRD 2215 | Adobe Essentials II | <u>3</u> |
| | | 9 |
| Third Semes | ter | |
| GRD 2208 | Electronic Prepress | 3 |
| GRD 2209 | Computer Type Design | 3 |
| CSCI 1102 | Intro to Computers with Business Applicatio | ns 3 |
| GRD 2220 | Adobe Essentials III | <u>3</u> |
| | | 12 |
| Fourth Seme | ester | |
| GRD 2218 | Package Design | 3 |
| BUS 2107 | Business Communications | 3 |
| GRD 2204 | Portfolio Review | <u>3</u> |
| | | 9 |
| | | |

GRAPHIC TECHNICIAN

Occupational Certificate

APPLIED SCIENCE & TECHNOLOGY DIVISION

The Graphic Technician Certificate program prepares students for employment requiring design responsibilities in a variety of organizational settings. The curriculum partners the necessary knowledge of design techniques with skills needed to be successful in business settings through enhanced communications skills and a working knowledge of office systems software.

► Total = 37 Hours

| First Semest | ter Cr. | Hrs. |
|----------------|---|--------------------|
| GRD 1201 | Introduction to Graphic Design | 3 |
| GRD 1202 | Typography and Color Theory | 3 |
| GRD 2201 | Adobe Essentials I | 3 <u>3</u> 9 |
| Second Sem | ester | |
| GRD 1203 | Advertising Design | 3 |
| GRD 1206 | Production Prepress | 4 |
| GRD 2215 | Adobe Essentials II | <u>3</u> |
| | | 10 |
| Third Semes | ster | |
| GRD 2209 | Computer Type Design | 3 |
| CSCI 1102 | Intro to Computers with Business Applications | 3 |
| GRD 2220 | Adobe Essentials III | <u>3</u> |
| | | 9 |
| Fourth Sem | ester | |
| GRD 2218 | Package Design | 3 |
| BUS 2107 | Business Communications | 3 |
| GRD 2204 | Portfolio Review | <u>3</u> 9 |
| | | 9 |
| Stackable into | Visual Communication Design AAS | |

VETERINARY ASSISTANT

Occupational Certificate

ALLIED HEALTH DIVISION

The Veterinary Assistant certificate program prepares students with the knowledge and skills needed for a career working with animals in a variety of settings such as veterinary clinics, boarding kennels, grooming salons, pet shops and animal shelters. > Total 17 hours

| Fall Semes | ter | Cr. Hrs. |
|-------------------|-------------------------------------|----------|
| ☐ OFTC 1234 | Communication in Technical Services | 3 |
| ☐ VET 1210 | Small Animal Nursing I | 3 |
| □ VET 1214 | Animal Grooming | 3 |
| □ VET 1215 | Animal Facilities Management | 3 |
| □ VET 1218 | Veterinary Practice Management | 2 |
| □ VET 2231 | Veterinary Technology Internship I | _3 |
| | | 17 |

VETERINARY ASSISTANT

Occupational Certificate

ALLIED HEALTH DIVISION

The Veterinary Assistant certificate program prepares students with the knowledge and skills needed for a career working with animals in a variety of settings such as veterinary clinics, boarding kennels, grooming salons, pet shops and animal shelters. > Total 17 hours

| Fall Semes | ter | Cr. Hrs. |
|------------------|-------------------------------------|----------|
| ☐ OFTC 1234 | Communication in Technical Services | 3 |
| ☐ VET 1210 | Small Animal Nursing I | 3 |
| □ VET 1214 | Animal Grooming or | |
| SERV 1101 | Service Learning | 3 |
| □ VET 1215 | Animal Facilities Management | 3 |
| □ VET 1218 | Veterinary Practice Management | 2 |
| □ VET 2231 | Veterinary Technology Internship I | _3 |
| | | 17 |

Change to credit hours & lab hours - Effective 6/1/2019

AGRI 1204 - Physics of Hydraulics (54)

A course designed to acquaint the student with basic hydraulic laws and formulas. The student also will have hands-on experience with components for disassembly and reassembly. Lecture 2 hours. Lab $\frac{6}{4}$ 4 hours.

Change to course title - Effective 6/1/2019

AGRI 1205 – Assembly, Adjustment and Reconditioning Farm Equipment Maintenance (5)

This course is designed to give the student a basic understanding of farm equipment design and adjustments for proper operation. Students will use operator and service manuals to adjust, maintain and repair agricultural machinery. Shop activities will develop skills needed for adjustment and reconditioning of farm-related equipment. Lecture 2 hours. Lab 6 hours.

New Course - Effective 6/1/2019

AGRI 1207 – Machinery Reconditioning Restoration (5)

This course is designed to give a student basic knowledge of surface prep work associated with painting sheet metal and chassis of farm equipment. The student will be introduced to types of paints, proper paint mixing and finishes. The student will be instructed on dent pulling, surface priming and painting techniques. Lecture 2 hours. Lab 6 hours.

New Course - Effective 6/1/2019

AGRI 2206 - Advanced Electrical & Hydraulics (4)

This course provides in-depth study of modern electric and hydraulic troubleshooting techniques. The student will take part in lecture and lab practices involving electronic over hydraulic controls of power shift, CVT and hydrostat drive transmissions. Electronically displaced hydraulic systems and modern computer-controlled system troubleshooting and proper repair techniques will be practices. Lecture 2 hours. Lab 4 hours.

Change in credit hours & lab hours – Effective 6/1/2019

DIEL 1203 – Heavy Equipment Alignment (4 2)

A study of component system operations of steering and suspensions related to vehicles in the transportation and construction industry. Emphasis will be placed on diagnostics and alignment of these systems. Lecture 1 hour. Lab $\frac{6}{2}$ 2 hours.

Change in credit hours, lecture hours & lab hours – Effective 6/1/2019

DIEL 1206 – Advanced Diesels (4)

This course is an in-depth study of the systems used by diesel engine manufacturers. Lecture 2.1 hours. Lab # 2 hours.

New Course - Effective 6/1/2019

GRD 1209 - Motion Design I (3)

This course explores time-based media and essential principles of motion design through exercises in creative problem-solving, composition, digital media, movement, idea generation and collaboration. Various techniques used to create ideas in motion include drawing, photography, video, audio and animation. Emphasis on movement, metaphorphosis, transition, sequential, time and rhythm, pace, and editing. This course will include introductions to software such as Adobe Photoshop, Premiere, and After Effects, as well as Mac OS. Lecture 1 hour. Lab 4 hours.

New Course - Effective 6/1/2019

GRD 2205 - Motion Design II (3)

This course will concentrate on various aspects of audio and video post-production tools and techniques, using Adobe After Effects with an emphasis on creating 2-D animation. Students will learn the basic principles of animation, storyboarding, character creation, sound design, compositions with video, Photoshop, Illustrator and other files. Creation of advanced text effects, video blending, keying effects and track mattes will be addressed. Students will view and analyze a variety of existing and peer work. Lecture 1 hour. Lab 4 hours.

New Course - Effective 6/1/2019

GRD 2206 - Motion Design III (3)

This course provides a solid foundation in Premiere Pro for video editing. An emphasis on skills and techniques required to organize, edit and export video projects in a variety of formats. Lecture 1 hour. Lab 4 hours.

New Course - Effective 3/15/2019

SERV 1101 – Service Learning (.5-3)

A service learning experience to encourage the personal, academic and professional development of the individual. Student selection and placement within the college or with an agency, community-based organization, business or institution is based upon the student's interest, knowledge and skills. Service opportunities may include, but are not limited to, tutoring, literacy training, neighborhood improvement, youth activities, environmental safety, animal shelter care, elderly and disable assistance, hospital or mental health care. This course may be repeated three times and offered as variable credit. Lab 1-6 hours.

New Course - Effective 6/1/2019

ALH 1205 — Clinical Experience (3)

This course will provide students with the opportunity to demonstrate administrative skills and professional communications in a medical office setting. The clinical learning experience will allow students to perform clerical responsibilities and processing of information in a supervised setting. Lab 6 hours

CHANGE IN CREDIT HOURS, LECTURE HOURS & LAB HOURS — EFFECTIVE 6/1/2019

DIEL 1206 – Advanced Diesels (4)

This course is an in-depth study of the systems used by diesel engine manufacturers. Lecture $\frac{2}{2}$ 1 hours. Lab $\frac{4}{2}$ 2 hours.

New Course - Effective 6/30/2019

FMGT 1201 – Intro to Facility Management (3)

This is an introductory course to facility management which includes terminology, business practices, and career pathways. This course introduces the fundamental topics of Operations & Maintenance, Project Management, Business Finance, and Leadership. Lecture 3 hours.

New Course - Effective 6/30/2019

FMGT 1202 – Building Environments (3)

Understanding concepts of building environments is fundamental to the design, operation, and maintenance of facilities. Knowledge of systems and controls enables facility managers to create healthy and productive environments for occupants. This course will explain how HVAC systems function together to create an appropriate building environment. Lecture 3 hours.

New Course - Effective 6/30/2019

FMGT 1203 – Waste Management (1)

This course will provide an overview of the historical and regulatory development of waste management. This course will explain the management of solid waste which may be encountered on a daily basis and address identification, transportation, and disposal of wastes. Students will discuss both conventional and innovative technologies which are used in the waste management industry. Lecture 1 hour.

New Course - Effective 6/30/2019

FMGT 1204 - Fleet Management (1)

This course will cover the basic concepts of fleet management. A fleet can include trailers, landscaping equipment, utility vehicles, trucks, buses, etc. The student will gain an understanding of the elements of fleet management including procurement, safety, accident prevention, operator training, maintenance, inspections and security. Lecture 1 hour.

Course Reused for Facility Management – Effective 6/30/2019

GFM 1201 - Plan and Develop Green Facilities (4)

This course will explore using the life-cycle of materials and energy to understand how facilities are managed and operated through green techniques. This will include new construction, retrofitting existing structures, and surrounding sites. Lecture 2 hours. Lab 4 hours.

Course Reused for Facility Management – Effective 6/30/2019

GFM 1202 - Building Automation Control Systems (4)

This course will provide the student a broad introduction to the specific issues involved with Building Automation Systems (BAS). Students will explore the processes that occur at every level in the air conditioning industry, including digital controls, energy conversation control strategies, and system maintenance. Lecture 2 hours. Lab 4 hours.

Course Reused for Facility Management – Effective 6/30/2019

GFM 1203 - Energy Modeling and Management (4)

This course will teach students methods to evaluate, choose, use, calibrate, analyze, and interpret the results of energy modeling software when applied to buildings systems, energy performance and economics. Students will demonstrate competence to model new and existing buildings systems with their full range of physics, environmental issues, and orientation. Lecture 2 hours. Lab 4 hours.

Course Reused for Facility Management – Effective 6/30/2019

GFM 1204 - Landscape and Grounds Management (4)

This course will teach students methods to save energy, lower water consumption, and maximize available resources, in developing eco-friendly and aesthetically pleasing environments. Students will learn techniques in managing both products and grounds care department use. Lecture 2 hours. Lab 4 hours.

Course Reused for Facility Management – Effective 6/30/2019

SDGB 1201 – Sustainable Building Designs (3)

The purpose of this course is to provide the student with an understanding of why sustainable design of buildings is important for our future and how it can have a global impact. Topics will include sustainable living and being stewards of the earth. This course will also assist in the preparation of taking the Leadership in Energy and Environmental Design (LEED) exam. Lecture 3 hours.

CHANGE IN COURSE TITLE, CREDIT HOURS & LECTURE HOURS — EFFECTIVE 7/1/2019

GRD 1206 – Production Methods Prepress (3) (4)

Prerequisite: GRD 1201, 1203, 1204, 2201

Printing production is introduced with an emphasis on printing processes, type specification, file formats, ink analysis, printing substrates-paper stock / vinyl, product price estimation, printer bids and printing terminology. Current reproduction methods of print material will be discussed. Emphasis on design projects that demonstrate these various process techniques. Lecture † 2 hours. Lab 4 hours.

Change in credit hours & lab hours – Effective 10/2/2019

MICR 1111 - Microbiology (5) (4)

This course is a study of the basic principles and activities of microorganisms, including: archaea, bacteria, algae, protozoa, yeasts, molds, viruses, and invertebrate parasites. Topics covered will include the history of microbiological concepts including their classification and evolution, microbial cell structure and function, as well as controlling microorganisms. Their environmental and societal impact through health and disease, as well as tools of biotechnology, is included. Lecture 3 hours. Lab 4 2 hours. □ IAI ~ L1 903L

Change in credit hours & lecture hours – Effective 1/2/2020

MATH 1111 - Statistics (3) (4)

Prerequisite: MATH 1403 or 1407 with a "C" or better or equivalent placement

A course recommended for students in such areas as math, science, economics, education and business. Topics include the language and process of statistics; descriptive methods using quantitative, qualitative and bivariate data; linear correlation and regression; fundamentals of probability; probability distributions, including binomial, normal and chi-square distribution; confidence intervals; and hypothesis testing using P-values and statistical software. Tradition and online format. Lecture 3 4 hours.

IAI ~ M1 902