Jackson COLLEGE

# CERTIFICATE PROGRAMS & SKILL SETS – 2020-21 CATALOG

# Business & Computer Technology pathway

# Business Administration - Certificate

30 Credit Hours

General Education Courses: English & Math

- ENG 131, 232; MAT 130 or MAT 133

Additional Courses: Accounting, Computer Systems, Business Courses

- ACC 131 or 231; CIS 101 or 201; BUA 100, 220, 230, 250

Benefits of Certificate:

- Help students develop an awareness in all of the functional aspects of the business world.
- This program also consists of the foundational courses needed for an associate degree.

https://www.jccmi.edu/degree/business-administration-certificate/

# Networking Specialist – Certificate

27 Credit Hours

Additional Courses: Networking Core Courses

- CNS 101, 106, 107, 121, 123, 131, 141, 201

Benefits of Certificate:

- Students who pass the related core exams will be CompTIA Network+ certified and recognized as a Microsoft® Certified Systems Administrator (MCSA). Students who pass the appropriate related elective exam can also achieve the premier certifications of Microsoft® Certified System Engineer (MCSE) and Certified Cisco Network Administrator (CCNA). The CompTIA and Microsoft® certifications are recognized as industry standards and are required by many employers.

https://www.jccmi.edu/degree/networking-specialist-certificate/

# Computer Service Technician – Skill Set

15 Credit Hours

General Education Courses: None

Core Requirements: Computer Information Core Courses

- CIS 101, 174, 175, 176, 179; CNS 101

Skill Set Benefits:

- The computer service technician credential prepares students to work as a computer service professional. A+/Network+ is the recognized industry standard for computer service technicians. CompTIA assures the quality of those who successfully pass the A+ and Network+ Certification exams. Jackson College provides this program to prepare students to pass both exams. The exam is administered by CompTIA's agents.

https://www.jccmi.edu/degree/computer-service-technician/

# Computer Support Specialist - Certificate

16 Credit Hours

Additional Courses: Computer Information Core Courses CIS 174, 175 201;  CNS 101, 131, 201

Benefits of Certificate:

- Students completing this certificate may find jobs as a computer support specialist, computer applications specialist, information office manager, end-user support technician, information systems associate, personal computer (PC) coordinator, or software specialist.

https://www.jccmi.edu/degree/computer-support-specialist-certificate/

# Entrepreneurship – Certificate

19 Credit Hours

General Education Courses: ENG 131

Additional Courses: Entrepreneurship, Accounting, and Computer Information

- ENT 101 & 102, 169;  ACC 131; CIS 201

Benefits of Certificate:

- This program begins applying the analytical skills which will assist students in creatively solving problems and meeting the needs of constituents either in their own company or in another organization in which they serve. Students can adapt these skills to whatever field(s) of endeavor they decide to pursue.

https://www.jccmi.edu/degree/entrepreneurship-certificate/

# Management - Certificate

30 Credit Hours

General Education Courses: English & Math

- ENG 131, 232; MAT 130 or MAT 133

Additional Courses: Accounting, Computer Systems, Business Courses

- ACC 131 or 231;  BUA 100, 220, 221 plus BUA 120 or 130

Benefits of Certificate:

- The focus in this program is on the principles, theories and application of planning, organizing, leading, staffing and evaluating results. Having good communication skills and the ability to make reliable decisions without supervision are essential to beginning a career in management.

https://www.jccmi.edu/degree/management-certificate/

# Esport Management - Certificate

18 Credit Hours

Courses: Sports Management, Business Courses

- SMT 110, 210, 230, 240, 245, BUA 231

Benefits of Certificate:

- Jackson College Esport Management Certificate prepares students for careers in the global business of esport. This program focuses on the business aspect of esport. Students will learn how to market and promote events. Graduates gain knowledge in planning events, esport culture, brands, fans and gaming industry trends. Graduates may pursue a variety of careers including esport team coach, esport event staff, esport arena staff, esport marketing coordinator, esport business development specialist, and social media specialist.
- https://www.jccmi.edu/degree/esport-management-certificate/

# Esport Game Design - Certificate

18 Credit Hours

Courses: Sports Management, Business Courses

- SMT 110, 210, 230, 240, 245, CIS 134, 183, 272, 274

Benefits of Certificate:

- Jackson College Esport Game Design Certificate prepares students for careers in the global business of esport. This program focuses on the creation and design aspect of esport. Students learn 3D modeling, animation, and lighting in video game production. Students are taught the skills necessary to develop and program single and multiplayer video games for gaming consoles, personal computers and networks. Graduates may pursue a variety of careers including programmer, animator, graphic designer, technician, writing, artist and entrepreneur.

https://www.jccmi.edu/degree/esport-game-design-certificate/

# Digital Marketing - Certificate

24 Credit Hours

Courses: eCommerce, Computer Systems, Business Courses

- BUA 100, 130, 230, 231, CIS 126, 133, 135, ECM 201, 220

Benefits of Certificate:

- Digital marketers communicate with the public through platforms that promote content engagement and sharing online. They use business acumen, creativity, communication, and technology skills to create digital marketing campaigns. Content is posted – such as images, text, and videos – to spark interest in a topic, build a brand and engage with the target market. Digital marketers may interact with the public in real-time, mediate criticism and share positive engagements. They track the effectiveness of communication strategies by setting digital campaign goals for Internet traffic and then measuring success against those goals.
- https://www.jccmi.edu/degree/digital-marketing-certificate/

# Microsoft Office Specialist - Certificate

16 Credit Hours

Courses: Computer Information Core Courses

- CIS 104, 117, 119, 120, 121, 122, 201

Benefits of Certificate:

- Students completing this program are prepared to assume a variety of positions in an automated office setting. Students completing the program could be hired at entry-level positions such as secretaries, help desk technicians, administrative assistants and stenographers.

https://www.jccmi.edu/degree/microsoft-office-specialist-certificate/

# Health Sciences Pathway

# Health Sciences Foundation -- Certificate

17 Credit Hours

General Education Courses: ENG 131, MAT 130

Core Courses:

- BIO 132 or BIO 253 and 254, PSY 140, HOC 110

Benefits of Certificate:

- This program helps students acquire basic knowledge and skills in math, foundational sciences, healthcare terminology and general education courses. It provides students applying for a high demand health care associate degree program with a certificate for the completion of most general education and/or preadmission course requirements of the intended program. Students who plan to enter a health care program are encouraged to work with a student success navigator to develop a plan. *Completion of this certificate does not guarantee completion of all desired program prerequisites and does not guarantee admission into the desired program. Students will work with their student success navigator on a program plan.

https://www.jccmi.edu/degree/health-science-certificate/

# Practical Nursing – Certificate

36 Credit Hours

General Education Courses: ENG 131

Core Courses:

- NRS 116, BIO 132 or BIO253 and 254, PNC 110, 111, 112, 113, 120, 130, 140, 150, 160, 170

Benefits of Certificate:

- This program prepares students to provide direct nursing care, under supervision, to individuals in a variety of health care settings. The program consists of integrated lectures, labs, clinical experiences, and simulations. Students who successfully complete the curriculum receive the certificate in practical nursing and are eligible to take the state licensing examination (NCLEX-PN) required for licensure as a practical nurse (LPN).

https://www.jccmi.edu/degree/nursing-certificate/

# Emergency Medical Technology – Skill Set

12 Credit Hours

General Education Courses: None

Core Courses:

- EMT 122 + Lab and Clinical Experiences

Benefits of Certificate:

- The Basic Emergency Medical Technician course is a Michigan Department of Community Health approved course. This program provides the information and experience necessary to prepare the student to sit for the National Registry Basic EMT Certification exam.

https://www.jccmi.edu/degree/emergency-medical-technology-skill-set/

# Medical Assistant - Certificate

35 Credit Hours

General Education Courses: None

Core Courses:

- HOC 150;  MED 120, 125, 130, 140, 150, 230, 240, 250, 252; MOA 112, 240, 241

Benefits of Certificate:

- The Medical Assistant Certificate program prepares the student for an entry-level position as a medical assistant in a medical office, clinic, hospital or other health care facility. Upon successful completion of this program, the student is eligible for a professional credential by passing the American Association of Medical Assistant (AAMA) examination to become a Certified Medical Assistant [CMA (AAMA)].

https://www.jccmi.edu/degree/medical-assistant-certificate/

# Medical Insurance Coder/Biller - Certificate

31 Credit Hours

General Education Courses: None

Related Courses: MOA 120, BIO 132

Core Courses:

- MIC 101, 141, 150, 201, 211, 242, 255;  MOA 112

Benefits of Certificate:

- The Medical Insurance Coder/Biller Certificate program prepares the student to work in a medical office, clinic, surgical center, emergency center, or hospital. This is a competency -based program that allows for a variety of program completion options which may include credit for work experience or waiver by exam and therefore can be tailored to meet the needs of both the novice and experienced coder or biller to prepare for numerous industry credentials.

https://www.jccmi.edu/degree/medical-insurance-coderbiller-certificate/

# Vascular Sonography – Certificate

59Credit Hours

General Education Courses: ENG 131, MAT 131, BIO 132 or BIO 253 and 254

Core Courses:

- PHY 145, DMS 102, 103, 104, 160, 161, 202, 203, 205,206, 207, 208, 209, 265, 266

Benefits of Certificate:

- The Phlebotomy Technician Skill Set prepares students for professional certification and employment in a variety of settings, such as medical offices, hospitals, or medical and diagnostic laboratories. Completion of this program will enable students to sit for the national Certified Phlebotomy Technician (CPT) exam.

https://www.jccmi.edu/degree/vascular-sonography-certificate/

# Human Services Pathway

# Corrections - Certificate

18 Credit Hours

General Education Courses: ENG 131

Core Courses:

- CRJ 119, 120, 121, 124, 127

Benefits of Certificate:

- This certificate program offers an opportunity to begin a study of all of the components of corrections. Employment includes prison guards, jail correction officers, juvenile facility youth specialist (both public and private) and private security.

https://www.jccmi.edu/degree/corrections-certificate/

# Behavioral Sciences -- Certificate

25Credit Hours

General Education Courses: ENG 131, PSY 140

Core Courses:

- Based upon career focus.  Choices include Political Science, Social Work, Psychology, and Law Enforcement

Benefits of Certificate:

- This certificate is designed for students who plan to transfer to four-year institutions as psychology majors. Certificate graduates could also find entry-level employment as clinic technicians in human services fields. This coursework also fulfills many general education requirements for the Associate in Arts degree. Students should verify requirements with their transfer institutions.

https://www.jccmi.edu/degree/corrections-certificate/

# Liberal Arts Pathway

# 3D Design & Animation – Certificate

24 Credit Hours

General Education Courses: None

Related Courses: ART 103; 6-9 elective credits

Core Courses:

- CIS 101, 132, 134, 183, 274, 279

Benefits of Certificate:

Along with the film industry, the gaming production industry is one of the fastest growing markets to begin your career as a digital artist. Traditional hands-on skills and appreciation for the virtual and digital realms are highly desirable.

https://www.jccmi.edu/degree/3d-design-certificate/

# Digital Photography - Certificate

31 Credit Hours

General Education Courses: ENG 131, MAT 130, COM 231

Related Courses: 6 elective credits

Core Courses:

- ART 101, ART 137 or CIS 137, ART 237 or CIS 237, CIS 134, CIS 136

Benefits of Certificate:

- The Digital Photography Certificate will provide students with the foundational skills to expand their photography portfolio and help them develop skills needed to apply to a fine arts degree program or a career in the field.

https://www.jccmi.edu/degree/digital-photography-certificate/

# Graphic Design – Certificate

24 Credit Hours

Core Courses:

- CIS 126, 127, 128, 132, 134, 136, 188, 234

Benefits of Certificate:

- This program allows for an understanding of the practical application of graphic design as it exists in both digital and print environments in the industry today. Career opportunities include freelance designer, editorial/publication designer, corporate identity designer, package designer, environmental designer and type designer.

https://www.jccmi.edu/degree/graphic-design-certificate/

# Studio Art – Certificate

31 Credit Hours

General Education Courses: ENG 131, MAT 130, COM 231

Related Courses: 6 elective credits

Core Courses:

- ART 101, 103, 112, 121, 201

Benefits of Certificate:

- The Studio Art Certificate provides students with the foundational skills to expand their portfolio and helps equip them for application to fine arts degree programs or a career in the arts. The curriculum encourages individual creativity and expression while emphasizing the development of basic studio skills. Typical job opportunities are advertising artist, art consultant, artist, auto detailer/pin-stripper, billboard artist, calligrapher, cartoonist, CD/record cover designer, courtroom sketcher, decorator, display designer, fashion artist/designer, graphic designer, illustrator, magazine/catalog illustration, mural artist, publication design and tattoo artist. This program also consists of the foundational courses needed for an associate degree.
- https://www.jccmi.edu/degree/studio-art-certificate/

# Science, Engineering & Mathematics Pathway

# Fundamentals of Engineering - Certificate

32 Credit Hours

General Education Courses: None

Core Courses:

- CEM 141;  MAT 151, 154, 251, 254;  PHY 251, 252

Benefits of Certificate:

- The Fundamentals of Engineering Certificate prepares students to transfer to, or enroll in, four-year institutions as engineering majors. The certificate fulfills many of the first two years of academic requirements for engineering programs. Certificate graduates could also find employment as engineering technicians.

https://www.jccmi.edu/degree/engineering-certificate/

# Environmental Science - Certificate

34 Credit Hours

General Education Courses: ENG 131 & MAT 131 or higher

Core Courses:

- BIO 158, BIO 258, PHL 236 and two other courses from different groups.

Related Requirements:  One transfer course, among list.

Benefits of Certificate:

- The Environmental Science Certificate prepares students to transfer to, or enroll in, four-year institutions as environmental science majors. The certificate fulfills most of the first-year academic entrance requirements for science programs. Certificate graduates could also find employment as laboratory technicians. While students should verify information with their transfer institutions, these students are advised by science faculty members according to their specific program goals for the best transfer to their four-year institutions or preparation for employment.

https://www.jccmi.edu/degree/environmental-science-certificate/

# Pre-Professional Science - Certificate

34 Credit Hours

General Education Courses: ENG 131 & MAT 141 or 151 plus one additional course

Core Courses:

- Five courses from two groups of math and science.

Benefits of Certificate:

- The Pre-Professional Science Certificate prepares students to transfer to four-year institutions either as science majors or as pre-professional students (pre-veterinary, pre-medical, pre-dental, physical and occupational therapy, optometry, pharmacy, physician's assistant, etc.). Certificate graduates could also find employment as laboratory technicians. The certificate fulfills most of the first-year academic entrance requirements for pre- professional programs. Students should verify information with their transfer institutions.

https://www.jccmi.edu/degree/pre-professional-science-certificate/

# Skilled Trades & Agriculture Pathway

# Welding - Certificate

27 Credit Hours

Core Courses:

- MFG 105, 164;  WLD 100; CAD 151; ELT 105

Welding Focus:

- MFG 160;  WLD 110, 115

Benefits of Certificate:

- Students that enter this field can expect employment in the areas and job titles such as: welding, mechanical design, production management, process management, project management, system technicians, machinery repair, maintenance technicians, and machine tool design.

https://www.jccmi.edu/degree/welding-certificate/

# Production Technician - Certificate

16 Credit Hours

Core Courses:

- MFG 135, 136, 137; CAD 152; ELT 106

Benefits of Certificate:

The Production Technician industry-recognized credential addresses the core technical competencies of higher skilled production workers in all sectors of manufacturing. Skilled manufacturing workers are needed in many areas of today's industries. Education and training will cover:

Safety

Manufacturing processes and production

Quality practices and measurement

Maintenance awareness

# Manufacturing Design - Certificate

28 Credit Hours

Core Courses:

- MFG 105, 164;  WLD 100; ELT 105; CAD 151

Manufacturing Design Focus:

- CAD 251;  MFG 115, 160, 261

Benefits of Certificate:

- Students that enter this field can expect employment in the areas and job titles such as: welding, mechanical design, production management, process management, project management, system technicians, machinery repair, maintenance technicians, and machine tool design.

https://www.jccmi.edu/degree/advanced-manufacturing-manufacturing-design-certificate/

# Industrial Systems - Certificate

33 Credit Hours

Core Courses:

- MFG 105, 164;  WLD 100; ELT 105; CAD 151

Industrial Systems Focus:

- ELT 220, 260, 261;  MFG 170

Benefits of Certificate:

- Students that enter this field can expect employment in the areas and job titles such as: welding, mechanical design, production management, process management, project management, system technicians, machinery repair, maintenance technicians, and machine tool design.

https://www.jccmi.edu/degree/industrial-systems-certificate/

# Electrician-Certificate

30 Credit Hours

Core Courses:

- ELT 120, 126, 150, 151, 152, 215, 220, 250, 260, 274

Benefits of Certificate:

- To become an electrician, one must complete at least four years as an apprentice, with at least 8,000 hours of practical experience. Time spent in the classroom does count toward the apprenticeship, as the state mandates necessary classes. After the apprenticeship, they may take an exam to become journeyman electricians, necessary to work on one's own in the field. With further experience and passage of an exam, they may become master electricians.

https://www.jccmi.edu/degree/electrician-certificate/

# Electronic Technology Microcomputer - Certificate

43 Credit Hours

General Education Courses: ENG 131 and MAT 130

Core Courses:

- CIS 101, 105, 106, 107, 174, 175, 176; CNS 101; ELT 120, 126, 130, 140

Related Requirement:

- CIS 160 or CIS 170

Benefits of Certificate:

- With this certificate, employment opportunities would include PC repair, staffing for help desk for a software manufacturer, PC service desk and retail sales.

https://www.jccmi.edu/degree/electronic-technology-microcomputer-certificate/

# Electronic Technology ELT - Certificate

33 Credit Hours

Courses:c

- CIS 101 or 201; CIS 174, 175, 176;  ELT 120, 126, 130, 140; CNS 101, 131

Benefits of Certificate:

- Electronic technologists are employed in such fields as digital computer maintenance, voice and data communications, radio and television broadcasting, medical electronic instrumentation, high-tech manufacturing, research and development in laboratory settings. Students may also work to achieve A+ certification for employment as personal computer service professionals. A+ certification is the “journeyman’s card” for computer technologists, which is recognized by CompTIA. The non–profit Computing Technology Industry Association (CompTIA) is widely recognized as the standard for qualified computer service professionals.

https://www.jccmi.edu/degree/electronic-technology-elt-certificate/