

Saginaw Career Complex

Program Catalog

Saginaw County's Center for
Career & Technical Education



Saginaw Career Complex - 2102 Weiss Street, Saginaw - (989)399-6150

SAGINAW CAREER COMPLEX

Success in College and Career



Mission Statement

The mission of the Saginaw Career Complex is to develop in every student relevant technical, academic, and 21st Century employability skills to ensure post-secondary success in college and career.

Who may attend the Saginaw Career Complex?

High school juniors and seniors from throughout the Saginaw County region may attend the Complex.

What are the admission requirements?

Students admitted to the Complex must:

- Have a desire to be successful
- Be a high school junior or senior
- Be on track for high school graduation; and
- Be willing to attend the Saginaw Career Complex or work-based learning facility for half of the school day for at least one school year.

What are the benefits?

- Earn high school CTE, elective and academic credit
- Earn industry certificates and credentials
- Apprenticeships in Skilled Trades
- Earn FREE college credit! See program pages for more details and then check out college/university websites for specific articulated courses!

What does it cost?

Nothing! it's FREE to all high school juniors and seniors in the Saginaw County region!

How do you enroll?

It's easy! Pick up an application from your high school counselor, or give us a call and schedule a tour with our highly qualified staff.

**Call the Saginaw Career Complex
at (989) 399-6150**

PROGRAMS

Agriscience & Technologies

Animal & Veterinary Science

Auto Collision Repair & Refinishing

Building Construction

Business, Management & Administration

Careers in Education

Computerized Machining (CNC)

Computer Technology & Networking

Cosmetology

Culinary & Hospitality Management

Pre-Engineering/Project Lead The Way

Game, Database & Web Design

Graphic Arts

Law, Public Safety & Security

Medical Careers / Adv. Medical Careers

Nursing Occupations / Adv. Nursing

Welding Technology

Non-Discriminatory Policy

It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: **Special Education and Student Support Services**, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: **Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services**, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Agriscience & Technologies

Career Pathway: Environmental Technologies



Program Description

This Tech Prep program prepares students for career success, college studies, and industry credentials of the agriculture industry. Students will study plant science, animal science and environmental science, as well as agri-business. Students will earn OSHA Career Safety certification and participate in FFA activities and competitions.

Program Content

- ◆ Personal Management and Employability Skills
- ◆ Technical Communications
- ◆ Career Research and Development
- ◆ Lab Safety
- ◆ Entrepreneurship & Management
- ◆ Ethics and Responsibility
- ◆ Leadership and Teamwork
- ◆ Principles of Animal Science
- ◆ Principles of Plant Science
- ◆ Soil Science
- ◆ Environmental Science
- ◆ Forestry

Special Program Features

- ◆ Students may participate in FFA, a national organization that provides opportunities to develop premier leadership, personal growth and career success through agricultural education. Students will be able to participate in various leadership, team-building, and skills contests.
- ◆ 11th and 12th grade students will complete and present Capstone projects.
- ◆ Work-based learning
- ◆ Tech Prep Program

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training
- ◆ Personal Management & Employability Skills

Recommendations

- ◆ Interest in learning about and working with animals
- ◆ Interest and willingness to participate in FFA leadership activities and skills competitions
- ◆ Willingness to work with and handle animals

Career Possibilities

- ◆ Agricultural Educator, Animal Caretaker, Animal Chiropactor, Animal Nutritionist, Animal Scientist, Agriculturalist, Breeding Physiologist, Dairy Producer, Equine Manager, Feed Sales Rep/Feed Sales Specialist, Seed Sales Representative, Feedlot Specialist, Livestock Buyer, Livestock Inspector, Livestock Producer, Pet Shop Clerk/Manager/Owner, Poultry Manager, USDA Food Inspector, Veterinarians, Veterinary Assistant, Veterinary Technician, Wildlife Biologist, Wildlife Research, Agronomist, Greenhouse Manager, DNR Officer, Plant Geneticist, Fruit and Vegetable Producer

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Agriscience & Technologies Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Agriscience & Technologies	VPAA	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Agriscience & Technologies		

**Agriscience & Technologies meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

High School Credit

1st Year Juniors can earn:

- 2.5 cr. Agriscience & Technologies
- 0.5 cr. English 12
- 1.0 cr. Zoology

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Agriscience & Technologies
- 0.5 cr. English 12
- 1.0 cr. Algebra II B or Problem Solving in Math

Agriscience & Technologies may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Agricultural Technology *Dual Enrollment with Michigan State University *Associates in Science with The Institute of Agricultural Technology & Certificate in Agricultural Operations	Baker College Agriculture Technology Water Quality Management Water Quality Technician Lake Superior State University Natural Resources Management and Protection Wildlife & Wildlands Management Michigan State University Agriculture, Food & Natural Resources Education Agribusiness Management		Program completers may qualify for articulated college credit from the following colleges and universities: Davenport University: Up to 25 credits (Pending)

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Animal & Veterinary Science



Career Pathway: Environmental Technologies

Program Description

This program prepares students for career success, college studies, and industry credentials of animal science. Students will study small and large animal anatomy, physiology, nutrition, and care and management. Students will practice basic veterinary skills such as fecal floatation, mozzles, injections, grooming, restraints and animal CPR. Students will earn OSHA Career Safety certification and participate in FFA activities and competitions.

Program Content

- ◆ Animal Safety and Care
- ◆ Animal Anatomy, Physiology, and Nutrition
- ◆ Animal Health and Diseases
- ◆ Companion, Scientific and Lab Animals
- ◆ Animal Handling
- ◆ Veterinary Technology
- ◆ Clinical & Hospital Procedures
- ◆ Vet Office Management
- ◆ Laboratory Techniques
- ◆ Principles of Animal Science
- ◆ Personal Management and Employability Skills
- ◆ Entrepreneurship & Management
- ◆ Ethical and legal issues
- ◆ Leadership and Teamwork

Special Program Features

- ◆ Students may participate in FFA, a national organization that provides opportunities to develop premier leadership, personal growth and career success through agricultural education. Students will be able to participate in various leadership, teambuilding, and skills contests.
- ◆ 11th and 12th grade students will complete and present Capstone projects.
- ◆ Work-based learning

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training

Recommendations

- ◆ Interest in learning about and working with animals
- ◆ Interest and willingness to participate in FFA leadership activities and skills competitions
- ◆ Willingness to work with and handle animals

Career Possibilities

- ◆ Animal Caretaker
- ◆ Animal Chiropractor
- ◆ Animal Nutritionist
- ◆ Animal Scientist
- ◆ Pet Shop Clerk/Manager/Owner
- ◆ Veterinarians
- ◆ Veterinary Assistant
- ◆ Veterinary Technician

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Animal/Veterinary Science Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Animal/Veterinary Science	Animal/Veterinary Science (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Animal/Veterinary Science		

**Animal/Veterinary Science meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

High School Credit

1st Year Juniors can earn:

- 2.5 cr. Animal/Veterinary Science
- 0.5 cr. English 12
- 1.0 cr. Zoology I

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Animal/Veterinary Science
- 0.5 cr. English 12
- 1.0 cr. Algebra II B or Problem Solving in Math
- Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

- Credit World Language

Animal/Veterinary Science may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Alpena Community College Pre-Veterinary Macomb Community College Veterinary Technician Oakland Community College Veterinary Assistant Wayne Community College Veterinary Technology	Baker College Veterinary Technician Michigan State University Veterinary Technology Siena Heights University Animal Behaviorist Veterinarian Wildlife Biologist Zoologist		Program completers may qualify for articulated college credit from the following colleges and universities: Davenport University: Up to 25 credits

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Automotive Collision Repair & Refinishing

Career Pathway: Technical and Engineering Systems



Program Description

This program meets automotive industry standards and has earned the National Institute for Automotive Service Excellence (ASE) certification. Students learn the technology of repairing and painting damaged parts and bodies of today's high-tech vehicles and practice these skills in an up-to-date lab as well as in local auto dealerships and repair facilities.

Program Content

- ◆ Structural Analysis and Damage Repair
- ◆ Non-structural Analysis/Damage Repair
- ◆ Painting and Refinishing
- ◆ Plastics and Adhesives
- ◆ MIG Welding
- ◆ Safety
- ◆ Computer-based Estimating
- ◆ Technical Mathematics
- ◆ Technical Communications
- ◆ Ethics and Legal Responsibilities
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ 12th grade students will complete and present senior projects.
- ◆ Automotive YES sponsored paid summer internships are available to qualifying junior students.
- ◆ Unpaid work experience
- ◆ Co-op and paid work experience may be available.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ State of Michigan Motor Vehicle Specialty Unitized Body Structural Repair
- ◆ CareerSafe Safety Education Training
- ◆ I-Car Gold Points
- ◆ SP2 Safety Certification

Program Certifications

- ◆ NATEF/ASE
- ◆ Automotive YES

Recommendations

- ◆ Ability to read, understand and apply technical information
- ◆ Mathematics: measurements, fractions, percentages, and cost-time estimates
- ◆ Good muscular and eye-hand coordination, physical stamina and strength
- ◆ Work independently with minimal supervision
- ◆ Work within precise limits or standards of accuracy

Safety Requirements

- ◆ Safety shoes
- ◆ Eye protection (provided for nonprescription)
- ◆ Proper work clothes
- ◆ Students must complete safety competencies before they are allowed to work in the lab
- ◆ Must adhere to all MIOSHA, OSHA, and state and federal rules and regulations
- ◆ Student must be free of allergies from dust, paint, and fumes

Career Possibilities

- ◆ Collision Repair Technician
- ◆ Painting/Refinishing Technician
- ◆ Collision Estimator
- ◆ Insurance Company Claims Adjuster
- ◆ Body Shop Manager

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Automotive Collision Repair & Refinishing Program of Study

HIGH SCHOOL PLAN OF STUDY	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
	GRADE	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
		4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language	
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language	
11	English 11	Algebra II or higher		Government Economics	Automotive Collision Repair & Refinishing	Automotive Collision Repair & Refinishing (meets VPAA req.)		
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Automotive Collision Repair & Refinishing			

*Automotive Collision Repair & Refinishing meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

1st Year Students can earn:

3.5 cr. Automotive Collision Repair & Refinishing
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Automotive Collision Repair & Refinishing
0.5 cr. English 12
1.0 cr. Algebra II B or Problem Solving in Math
Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

Credit World Language
Credit 3rd Year Science

Automotive Collision Repair & Refinishing may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY	COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
	<p>Delta College Auto Service</p> <p>Henry Ford Community College Automotive Service Management</p> <p>Jackson Community College Automotive Collision Repair</p> <p>Lansing Community College Auto Collision Repair</p> <p>Mott Community College Auto Body Repair & Painting</p>	<p>Baker College Autobody Technician</p> <p>Ferris State University Automotive Management</p>	<p>Ohio Technical College Collision Repair and Refinishing Custom Paint and Graphics</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Alpena Community College: 1 course</p> <p>Baker College: 2 courses</p> <p>Davenport University: Up to 31 Credits</p> <p>Delta College: 1 course</p> <p>Ferris State University: 4 courses</p> <p>Kirtland Community College: 2 courses</p> <p>Mid-Michigan Community College: 4 courses</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Building Construction



Career Pathway: Technical and Engineering Systems

Program Description

Workers in the building construction field are in the business of making people's dreams come true. Whether it's a dream home, an office building, a grocery store, or a remodeling job, the construction industry is a popular field to build a career. In this program, students obtain the skills, technical knowledge, and work habits necessary to succeed in the construction and maintenance industry. They put classroom knowledge to work through hands-on activities in the lab and at the project house. All aspects of the construction industry are studied including: blueprint reading, framing, roofing, siding, masonry, and basic carpentry, repair and maintenance skills.

Program Content

- ◆ Safety
- ◆ Hand and Power Tools
- ◆ Blueprint Reading
- ◆ Wood Building Materials, Fasteners, and Adhesives
- ◆ Floor Systems, Wall, Ceiling, and Roof Framing
- ◆ Windows and Exterior Doors
- ◆ Reading Plans and Elevations
- ◆ Distance Measurements and Leveling
- ◆ Concrete and Reinforcing Materials
- ◆ Exterior Finish and Roofing
- ◆ Thermal and Moisture Protection
- ◆ Stairs, Drywall, Interior Finish, and Cabinet Installation
- ◆ Technical Communications
- ◆ Personal Management and Employability Skills
- ◆ Construction Math

Special Program Features

- ◆ Apprenticeship opportunities with the Carpenters, Local 706
- ◆ 12th grade students will complete and present senior projects.
- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ Unpaid work experience
- ◆ Co-op and paid work experience may be available.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training

Program Requirements

Safety Requirements:

- ◆ Safety shoes
- ◆ Eye protection (provided for nonprescription)
- ◆ Students must adhere to all OSHA/MIOSHA rules and regulations
- ◆ Students must complete safety competencies before working in the lab or project house

Physical Requirements:

- ◆ Able to manipulate power and hand tools
- ◆ Able to lift and move building materials
- ◆ Able to climb scaffolding and ladders
- ◆ Good muscular and eye-hand coordination, physical stamina, and strength

Academic Requirements:

- ◆ Basic math, measurements, decimals, and fractions
- ◆ Able to apply algebra and geometry to solve construction related problems

Other Requirements:

- ◆ Ability to work well as a team member
- ◆ Ability to work within precise limits or standards of accuracy
- ◆ Students may be involved in off site construction projects
- ◆ Students must be free of allergies from dust
- ◆ Able to work independently with minimal supervision

Career Possibilities

- ◆ Finish Carpenter
- ◆ Rough Carpenter
- ◆ Construction Laborer
- ◆ Safety Manager
- ◆ Estimator
- ◆ Project Engineer
- ◆ Project Manager
- ◆ Construction Foreman
- ◆ Roofer
- ◆ Apprentice Carpenter
- ◆ General Contractor/Builder

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m.

Building Construction Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Building Construction (46.0000)	Building Construction (meets VPAA req.)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Building Construction (46.0000)		

**Building Construction meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

High School Credit

1st Year Students can earn:

3.5 cr. Building Construction
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Building Construction
0.5 cr. English 12
1.0 cr. Algebra II B or Problem Solving in Math
Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

Credit World Language
Credit 3rd Year Science

Building Construction may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
<p>Delta College Architectural Technology Construction Management Residential Construction Skilled Trades (Apprenticeship) - Carpenter</p> <p>Mott Community College Building & Construction Technology CAD & Design</p>	<p>Baker College Construction Management Project Management & Planning</p> <p>Central Michigan University Construction Management Real Estate Development</p> <p>Western Michigan University Construction Engineering Technical</p>	<p>ITT Tech Institute Construction Management Drafting & Design Technology</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Davenport University: Up to 28 Credits</p> <p>Delta College: RC 101 Const. Print Interpretation RC 104 Construction Lab I RC 201 Rough and Outside Framing SKCT 111 Construction Print Interpret.</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Business, Management & Administration

Career Pathway: Business Services Technology



Program Description

This multifaceted program prepares students for success in today's high-tech business careers. In addition to becoming a computer applications specialist, the student will be prepared to enter the workforce or college with a basic understanding of business theory, management, finance, accounting, office supervision, and organization. The program offers valuable skills important to entrepreneurs who want to start their own business. Students are expected to be computer literate users of applications and the internet.

Program Content

- ◆ Administrative Office Procedures
- ◆ Operations and Business Processes
- ◆ Microsoft Office Suite
- ◆ Ethics and Legal Responsibilities
- ◆ Entrepreneurship / Starting your own business
- ◆ Customer Service
- ◆ Business Communications
- ◆ Business Math
- ◆ Accounting and Financial Management
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in BPA (Business Professionals of America), a national organization that provides opportunities to develop teamwork, leadership, and career skills valued by employers.
- ◆ Delta College Skill Day Competitions.
- ◆ 12th grade students will complete and present senior projects.
- ◆ Students will work toward industry certification in word processing, spreadsheet, presentation, and database.
- ◆ Unpaid work experience
- ◆ Co-op and paid work experience may be available.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Microsoft Certifications: *Word, Access, Excel, PowerPoint*
- ◆ CareerSafe Safety Education Training

Recommendations

- ◆ Keyboarding and computer skills
- ◆ Good communication skills
- ◆ Ability to stay on task and meet deadlines

Career Possibilities

- ◆ Administrative Assistant
- ◆ Information Assistant
- ◆ Customer Service Specialist
- ◆ Data Entry Specialist
- ◆ Receptionist
- ◆ Management Trainee
- ◆ Payroll Clerk
- ◆ Accounting Clerk
- ◆ Accounts Receivable Clerk
- ◆ Human Resource Manager
- ◆ Small Business Owner
- ◆ Accountant
- ◆ Information Processing Specialist
- ◆ Executive Assistant
- ◆ Office Manager
- ◆ Computer Operator

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Business, Management & Administration Program of Study

HIGH SCHOOL PLAN OF STUDY	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
	GRADE	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
		4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language	
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language	
11	English 11	Algebra II or higher		Government Economics	Business, Management & Administration (52.0299)	Business, Management & Administration (meets VPAA requirement)		
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Business, Management & Administration (52.0299)			

*Business, Management and Administration meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

1st Year Students can earn:

3.5 cr. Business, Management and Administration
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Business, Management and Administration
1.0 cr. Problem Solving in Mathematics or Algebra II B
0.5 cr. English 12
Credit Visual, Performing, and Applied Arts requirement
Credit On-line Learning Experience

CTE Program Completers can exchange:

Credit World Language
Credit 3rd Year Science

Business, Management and Administration may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY	COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
	<p>Delta College Accounting Entrepreneurship/Small Business Merchandising Management Office Services Management Administrative Assistant</p> <p>Mott Community College Business Office Management</p> <p>Oakland Community College Administrative Support Technology – General Business Business Administration</p> <p>Wayne County Community College District Office Information Systems: E-Business and Office Specialist</p>	<p>Baker College Accounting Administrative Assistant Human Resource Management Entrepreneurship</p> <p>Central Michigan University International Business Marketing: Marketing Communication Retail Management</p> <p>Davenport University Human Resource Management Accounting Information Management</p> <p>Michigan State University Accounting and Marketing</p> <p>Saginaw Valley State University Entrepreneurship General Business</p>	<p>ITT Technical Institute Business Administration Business Management Project Management & Administration Technical Project Management</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Baker College: 6 courses</p> <p>Davenport University: Up to 42 credits</p> <p>Delta College: 11 courses</p> <p>Ferris State University: Up to 2 courses</p> <p>Kirtland Community College: 1 course</p> <p>Mid-Michigan Community College: 2 courses</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Careers in Education

Career Pathway: Education and Human Services



Program Description

The Careers in Education program focuses on the general theory and practice of learning and teaching; the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the social foundation of education. Students study the developmental characteristics of children and adolescents, learn effective teaching methods, create meaningful lessons, and gain first hand knowledge of teaching through practical experience in classrooms. Students will spend three days a week participating in teaching experiences at local schools and two days in classroom instruction.

Program Content

- ◆ Employability Skills and Career Planning
- ◆ Human Growth and Development
- ◆ Communication and Collaboration
- ◆ Diversity
- ◆ Classroom Management and Guidance
- ◆ Applied Learning/Field Experience
- ◆ Health and Safety
- ◆ Learning Environment and Climate
- ◆ Ethics and Professional Responsibility
- ◆ Systems and Legal Issues
- ◆ Instructional Strategies/Instructional Technology
- ◆ Curriculum Planning and Assessment

Special Program Features

- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, leadership, and career skills valued by employers
- ◆ Students complete and present Senior Projects
- ◆ Students participate in teaching experiences at local schools for at least 45 hours per semester
- ◆ Community Service projects
- ◆ Some on-line coursework for second year students

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Students take the Michigan Test for Teacher Certification Basic Skills Test
- ◆ CPR
- ◆ First Aid
- ◆ Safe Sleep / Shaken Baby Syndrome
- ◆ Bloodborne Pathogens
- ◆ CareerSafe Safety Education Training

Program Requirements

- ◆ Reading Level: 11th grade
- ◆ Overall 2.0 grade point average
- ◆ Students are responsible for transportation to and from teaching experience worksites.
- ◆ Physical, Negative TB test, DHS Central Registry and ICHAT criminal background checks
- ◆ Ability to work well as a team member
- ◆ Good writing and speaking skills
- ◆ Enjoy interacting with children

Career Possibilities

- ◆ Teacher
- ◆ Teacher Aide/Paraprofessional
- ◆ Social Worker
- ◆ Counselor
- ◆ Human Resource Trainer
- ◆ Parent Educator
- ◆ Psychologist

Length of Program and Population Served

2 year program for 11th and 12th grade students with a 2.0 overall GPA

Times Program is Available

7:03 a.m. - 10:05 a.m.

Careers in Education Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
9	English 9 4 credits	Algebra I or higher 4 credits	Biology 3 credits	World History & Geography 3 credits	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Careers in Education (13.0000)	Careers in Education (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Careers in Education (13.0000)		

*Careers in Education meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

1st Year Students can earn:

- 3.5 cr. Careers in Education
- 0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Careers in Education
- 1.0 cr. Algebra II B or Problem Solving in Math
- 0.5 cr. English 12
- Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

- Credit World Language
- Credit 3rd Year Science

Careers in Education may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Child Development Jackson Community College Early Childhood Development & Ed. Human Services Transfer Programs Mott Community College Early Childhood Education Early Childhood Education – Special Needs Social Work Technician Wayne County Community College District Early Childhood Education Pre – Social Work Teacher Education	Baker College Early Childhood Education Secondary Teacher Preparation Central Michigan University Elementary and Secondary Education Special Education Grand Valley State University Elementary and Secondary Education Education – Special Educations Michigan State University Education Family Community Services Saginaw Valley State University Elementary and Secondary Education Western Michigan University Child & Family Development		Program completers may qualify for articulated college credit from the following colleges and universities: Central Michigan: 1 course Davenport University: Up to 28 credits Delta College: 3 courses Ferris State University: 2 courses Mid-Michigan Community College: 2 courses Saginaw Valley State University: 1 course

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Computer Technology & Networking

Career Pathway: Business Services Technology



Program Description

This program is designed to teach students the fundamentals of managing computer network software, such as operating systems and protocols, and networking hardware, such as routers and switches. Students who successfully complete this program will be prepared to take industry recognized Cisco CCENT, CCNA, CompTIA-Network+, and CompTIA-A+ certification exams, qualifying them for the fastest growing, high-wage jobs in the country in PC support, network administration, and operating systems and security.

Program Content

- ◆ Computer Competencies / Technology
- ◆ IT Essentials
- ◆ PC Hardware and Software
- ◆ Network Operating Systems
- ◆ CCNA R & S: Introduction to Networks; Routing and Switching Essentials; Scaling Networks; and Connecting Networks
- ◆ CCNA Security
- ◆ Ethics, Security, and Legal Responsibilities
- ◆ Computer Repair
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in BPA (Business Professionals of America), a national student organization that fosters competency and business professionalism.
- ◆ Delta College Skill Day Competition
- ◆ 12th grade students will complete and present senior projects.
- ◆ Unpaid work experience
- ◆ Web based content, on line assessment, and hands on labs
- ◆ Internet Technology skills
- ◆ Configure an Ethernet Switch/VLANs
- ◆ Project-based "hands-on" learning
- ◆ Co-op and paid work experience may be available

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CompTIA-Network+ and CompTIA A+
- ◆ CompTIA Security
- ◆ Cisco Certified Network Associate (CCNA)
- ◆ Cisco Certified Entry Networking Technician (CCENT)
- ◆ CareerSafe Safety Education Training

Program Certifications

- ◆ MicroSoft Developer Network
- ◆ Cisco Academy

Recommendations

- ◆ Keyboarding and computer skills
- ◆ Self-directed, independent learner
- ◆ Completed Algebra and Geometry with a "C" or better

Career Possibilities

- ◆ PC Support Specialist
- ◆ Network Technician
- ◆ Network Administrator
- ◆ Computer Security Administrator

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Computer Technology & Networking Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Computer Technology & Networking (11.0901)	Computer Technology & Networking (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Computer Technology & Networking (11.0901)		

HIGH SCHOOL PLAN OF STUDY

High School Credit

**Computer Technology & Networking meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

1st Year Students can earn:

- 3.5 cr. Computer Technology & Networking
- 0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Computer Technology & Networking
- 1.0 cr. Calculus, Precalculus, Algebra II B or Problem Solving in Math
- 0.5 cr. English 12
- Credit Visual, Performing, and Applied Arts requirement
- Credit On-line Learning Experience

CTE Program Completers can exchange:

- Credit World Language
- Credit 3rd Year Science

Computer Technology & Networking may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
<p>Delta College Network Technology PC Systems Support & Technology Programming Web Information Technology</p> <p>Lansing Community College Computer Repair & Support Technician Computer Support Specialist Networking & Security Management</p> <p>Mott Community College Computer Information Systems Computer Network Administration Computer Network Engineering</p>	<p>Baker College Computer Networking Technology Information Technology & Security Information Technology Support</p> <p>Davenport University Networking Technology Computer Information Systems Information and Computer Security Network Security Computer Networking</p> <p>Ferris State University Computer Information Systems Computer Networks & Systems</p> <p>Saginaw Valley State University Computer Forensics Computer Information Systems Computer Science</p>	<p>Everest Institute Computer Technology Electronic Computer Technology</p> <p>ITT Technical Institute Information Systems Security Project Management Information Technology – Computer Network Systems</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Baker College: 2 courses</p> <p>Davenport University: Up to 37 credits</p> <p>Delta College: 6 courses</p> <p>Ferris State University: 6 courses</p> <p>Kirkland Community College: 1 course</p> <p>Mid-Michigan Community College: 1 course</p>

POST SECONDARY

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Computerized Machining (CNC)

Career Pathway: Technical and Engineering Systems



Program Description

The Computerized Machining program provides tremendous opportunities for students to enter a high skill, high wage career. This program is offered as dual enrollment through Delta College and prepares you for entry-level positions to manufacture precision products. You could work in a variety of manufacturing industries such as automotive, aviation, alternative energy, agricultural, medical and communications.

As a CNC Machine Tool Programmer-Operator, you will use computer driven machine tools such as lathes, mills, lasers, water jet, wire and/or sinker electrical discharge machines, tube benders, punches, brakes, and grinders to shape materials to precise dimensions. Although some programmer/operators can work with a wide variety of CNC machine tools, most specialize in one or two types. Specific duties may include: studying blueprints or sketches; building tooling, jigs, or fixtures; programming and editing; machine work pieces; inspecting and certifying product for dimensional accuracy; and light duty repair and maintenance of the CNC machine. A solid math background, including courses in algebra, geometry, trigonometry, and basic statistics, is useful, along with experience working with computers.

Program Content

- ◆ Safety practices and procedures
- ◆ Studying blueprints or sketches
- ◆ Building tooling, jigs, or fixtures
- ◆ Programming and editing
- ◆ Machine work pieces
- ◆ Inspecting and certifying product for dimensional accuracy
- ◆ Light duty repair and maintenance of the CNC machine

Special Program Features

- ◆ Partnership with Great Lakes Bay Regional Manufacturers' Association
- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and careers skills valued by employers
- ◆ Work based learning experience
- ◆ Industry certifications
- ◆ College Credit
- ◆ High School ELA and math credit
- ◆ Key Train

Program Requirements

- ◆ Safety Shoes
- ◆ Eye Protection (provided for nonprescription)
- ◆ Proper Work Clothes
- ◆ Good Hand-Eye Coordination, Eyesight, & Depth Perception

- ◆ Mechanical Aptitude
- ◆ Good Physical Condition
- ◆ Ability to Pay Careful Attention to Detail and Follow Instructions Closely

Career Possibilities

- ◆ CNC machine tool programmers
- ◆ Press machine setters, operators
- ◆ Lathe and turning machine setters
- ◆ Milling and planning machine operators
- ◆ Plating and coating machine setters
- ◆ Drilling and boring machine tool setters

The need for CNC Machine Tool Programmer-Operators is great! According to 27 local companies, in the next five years, more than 1,000 CNC operators and machinists will be needed in the Great Lakes Bay Region. Next year will hire 100 entry level operators.

Wages for metal and plastic machine workers vary by size of the company, union status, industry, and skill level and experience of the operator. Range is \$13.54 – \$22.07 per hour.

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m.

Computerized Machining Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Computerized Machining	VPAA	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Computerized Machining		

**Computerized Machining(CNC) meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

High School Credit

First Year Students can earn:

3.5 cr. Computerized Machining
0.5 cr. English 12

Second Year Students and First-Year Seniors can earn:

2.5 cr. Computerized Machining
0.5 cr. English 12
1.0 cr. Algebra II B or Problem Solving in Math

Delta College CNC Dual Enrollment Offerings with Saginaw Career Complex for First-Year Students

FALL			
Course	Title	Credit Hours	Contact Hours
MS-113	Introduction to Machining Process	2 (with two additional hours)	60
DRF-121	Blue Print Reading	3	45
WINTER			
MS-181W	Machine Tools I	4	90
MIT-118	Safety Practices and Procedures	2	30

Cosmetology

Career Pathway: Education and Human Services



Program Description

This certified course prepares students for the state cosmetology exam and licensing process. Students receive hands-on training in a clinical salon lab environment in hairdressing and treatments, coloring, chemical processes, facials, nails, and manicuring. Enrollment in this program, offered at a school of Cosmetology located in Saginaw, is limited to high school juniors and those seniors who are returning to complete the program. Students must complete 1,500 clock hours of required skills training to be eligible for the Michigan State Board of Cosmetology Licensing Exam.

Program Content

- ◆ Properties of Hair and Scalp
- ◆ Bacteriology
- ◆ Infection Control & Blood Borne Pathogens
- ◆ Diseases and Disorders of the Scalp
- ◆ Shampoo and Conditioning
- ◆ Hair Cutting
- ◆ Permanent Waving
- ◆ Chemical Relaxing
- ◆ Hair Color
- ◆ Thermal Hairstyling
- ◆ Wet Hairstyling
- ◆ Customer Service
- ◆ Professionalism
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers
- ◆ Students who are selected to participate in the Cosmetology program will be prepared to take the Michigan State Board of Cosmetology Licensing Exam.
- ◆ Students attend classes Tuesdays thru Saturdays.
- ◆ A clinical salon lab environment provides real world hands-on training with customers.
- ◆ Beginning students will start the Cosmetology program in early August and conclude their first year of study the end of June.
- ◆ Attendance at a parent/student orientation in May is required.
- ◆ First year students must complete 85 percent of the scheduled hours to be eligible to return for the senior (advanced) program.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Michigan State Board of Cosmetology Licensing Exam

Program Requirements

- ◆ Attendance at Orientation is required
- ◆ Daily attendance is mandatory to accumulate state licensing hours
- ◆ Good manual dexterity and physical coordination
- ◆ Successful completion of Algebra & Biology

Career Possibilities

- ◆ Stylist/Barber
- ◆ Salon Manager/Owner
- ◆ Nail Technician
- ◆ Cosmetology Instructor
- ◆ Massage therapist
- ◆ Make-Up Artist
- ◆ Sales, Marketing or Management Consultant
- ◆ Aesthetician
- ◆ Retail/Manufacturer Sales
- ◆ Product Analyst

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

Specific calendar and schedule of classes is available at the Saginaw Career Complex

Cosmetology Program of Study

HIGH SCHOOL PLAN OF STUDY	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
	GRADE	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
		4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language	
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language	
11	English 11	Algebra II or higher		Government Economics	Cosmetology (12.0400)	Cosmetology (meets VPAA requirement)		
12	English 12	4th year Math	Chemistry or Physics or Science Elective		Cosmetology (12.0400)			

High School Credit

1st Year Students can earn:

4.0 cr. Cosmetology

2nd Year Students can earn:

2.0 cr. Cosmetology

1.0 cr. Applied Science

1.0 cr. Problem Solving in Math

Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

Credit World Language

Cosmetology may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY	COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
	<p>Delta College Cosmetology Management</p> <p>Kirtland Community College Cosmetology</p> <p>Mott Community College Haircare Salon Management</p> <p>Oakland Community College Cosmetology Management Cosmetology Stylist</p> <p>Schoolcraft College Cosmetology Management</p>			

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Culinary & Hospitality Management - ProStart



Career Pathway: Business Services Technology

Program Description

Whether planning to go to college or directly into the job market, the Culinary & Hospitality Management-ProStart program is a great first step. This practical, hands-on program is designed to teach students the knowledge and skills needed for careers in the food service, lodging, and travel/tourism industries. Students gain valuable experience through the operation of an on-site restaurant as well as participation in tours, work-based learning experiences, and competitive events such as ProStart and SkillsUSA.

Program Content

- ◆ Culinary Arts, Presentation and Service
- ◆ Bakery and Pastry Sciences, Presentation and Service
- ◆ Safety and Sanitation
- ◆ Menu Planning and Costing
- ◆ Restaurant Standards, Regulations, and Laws
- ◆ Computerized Cash Register Operation
- ◆ Computerized "Point of Sale" Systems Operation
- ◆ Customer Service
- ◆ Front of House Service
- ◆ Dining Room Service and Management
- ◆ Ethics and Responsibility
- ◆ Marketing, Travel, Tourism and Lodging
- ◆ Personal Management and Employability Skills
- ◆ Job Interviewing and Portfolio Development
- ◆ Technical Communications
- ◆ Business and Culinary Math

Special Program Features

- ◆ Students participate in local, state, and national culinary competitions such as ProStart and SkillsUSA.
- ◆ Students operate an on-site restaurant that is open to the public.
- ◆ Hands-on culinary demonstrations/exams for parents and industry representatives.
- ◆ Community Service projects
- ◆ 12th grade students will complete and present senior projects.
- ◆ Unpaid Work Experience in local food service and hospitality businesses.
- ◆ Co-op and Paid Work Experience is available.
- ◆ Opportunity to earn ServSafe certification
- ◆ Opportunity to earn National ProStart Certificate of Achievement

Program Certifications

- ◆ National Restaurant Association Educational Foundation ProStart Program

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ ServSafe Worker's Certificate
- ◆ ServSafe Manager's Certificate
- ◆ ServSafe Allergens Certificate
- ◆ National ProStart Certificate of Achievement—year 1
- ◆ National Prostart Certificate of Achievement—year 2
- ◆ CareerSafe Safety Education Training

Recommendations

- ◆ Students are required to wear a uniform
- ◆ Ability to work as a team member
- ◆ Ability to stand for long periods of time
- ◆ Ability to follow directions
- ◆ Ability to do several tasks at once
- ◆ Ability to work well under pressure

Career Possibilities

- ◆ Food/Beverage Manager
- ◆ Host/Hostess
- ◆ Service Staff
- ◆ Private Chef
- ◆ Executive Chef
- ◆ Research and Development Chef
- ◆ Production Chef and Cooks
- ◆ Pastry Chef
- ◆ Baker
- ◆ Caterer
- ◆ Dietitian
- ◆ Food Styling and Restaurant Media
- ◆ Food Scientist
- ◆ Entrepreneur

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Culinary & Hospitality Management-ProStart Program of Study

HIGH SCHOOL PLAN OF STUDY	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
	GRADE	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
		4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language	
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language	
11	English 11	Algebra II or higher		Government Economics	Culinary & Hospitality Management-ProStart	Culinary & Hospitality Management-ProStart <small>(meets VPAA requirement)</small>		
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Culinary & Hospitality Management-ProStart			

*Culinary & Hospitality Management-ProStart meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

1st Year Students can earn:

- 3.5 cr. Culinary & Hospitality Management-ProStart
- 0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Culinary & Hospitality Management-ProStart
- 1.0 cr. Algebra II B or Problem Solving in Math
- 0.5 cr. English 12
- Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

- Credit World Language
- Credit 3rd Year Science

Culinary & Hospitality Management-ProStart may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY	COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
		Henry Ford Community College Culinary Arts Hotel & Restaurant Management Lansing Community College Hotel Lodging/Food Management Mott Community College Baking & Pastry Arts Culinary Arts	Baker College Baking & Pastry Arts Culinary Arts Food & Beverage Management Ferris State University Hotel Management Restaurant & Food Industry Management Grand Valley State University Hospitality & Tourism Management Northwood University Hotel, Restaurant and Resort Management Sullivan University Hotel, Restaurant Management	The Art Institutes of Michigan Culinary Arts Culinary Management

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Pre-Engineering / Project Lead The Way

Career Pathway: Technical and Engineering Systems



Program Description

Pre-Engineering/Project Lead The Way is an innovative, nationally recognized program that introduces students to the scope, rigor, and discipline of engineering prior to college. Through the design development process, students will create product solutions using the latest computer design and simulation software. The engineering sequence continues as students develop advanced engineering problem-solving skills using a computer-based systems approach. Students may opt for a major focus on digital electronics, integrated manufacturing/mechanical engineering or architecture/civil engineering.

Program Content

- ◆ Principles of Engineering
- ◆ Introduction to Engineering Design
- ◆ Engineering Design and Development
- ◆ Computer Integrated Manufacturing
- ◆ Civil Engineering and Architecture
- ◆ Digital Electronics
- ◆ Robotics
- ◆ Personal Management and Employability Skills
- ◆ Technical Communications
- ◆ Pre-Calculus/Calculus

Special Program Features

- ◆ Students may participate in FIRST Robotics, an exciting, international competition that teams professional engineers with young people to solve an engineering design problem in an intense and competitive way.
- ◆ Michigan Design and Build Bridge Challenge - teams use TRAC Skills learned in class to compete for a trip to Lansing to be judged by Civil Engineers from MDOT. Paid internship positions are available.
- ◆ MITES- Various projects involving engineering and design can be entered at the regional and state competitions with many awards and scholarships possible.
- ◆ A.H. Nickless Innovation Award - A local design challenge where students can win up to \$5,000 in scholarships.
- ◆ SkillsUSA – allows students to compete at a regional, state and national level involving a variety of skills related to engineering.
- ◆ Team America Rocketry Challenge – A national competition involving a unique rocket design challenge. Finalists are invited to Virginia to compete for a \$20,000.00 first prize.
- ◆ Solar/Electric Vehicle - Allows students to participate in several local & national races. Past teams have raced in Missouri, Kansas & Japan.

- ◆ 12th grade students will complete and present senior projects.
- ◆ Unpaid work experience

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training

Program Certifications

- ◆ Project Lead The Way

Recommendations

- ◆ “C” or better grades in Algebra and Geometry
- ◆ Safety glasses (provided for nonprescription).
- ◆ Keyboarding and computer skills

Career Possibilities

- ◆ Electrical Engineer
- ◆ Mechanical Engineer
- ◆ Civil Engineer
- ◆ Electronics Engineer
- ◆ Industrial Engineer
- ◆ Chemical Engineer
- ◆ Engineering Technologist
- ◆ Engineering Technician
- ◆ Electronics Technician
- ◆ Architect
- ◆ CAD Operator

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

S A G I N A W C A R E E R C O M P L E X

2102 Weiss Street • Saginaw, MI 48602 • Phone (989) 399-6150

Pre-Engineering/PLTW Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Pre-Engineering/ Project Lead The Way	VPAA	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Pre-Engineering/ Project Lead The Way		

HIGH SCHOOL PLAN OF STUDY

High School Credit

1st Year Students can earn:

3.5 cr. Pre-Engineering/Project Lead The Way
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Pre-Engineering/Project Lead The Way
0.5 cr. English 12
1.0 cr. Calculus , Pre-calculus, Algebra II B or Problem Solving in Math
Credit Online Learning

**Pre-Engineering / Project Lead The Way meets English 12 and 4th year math requirement and may meet Algebra II B or Calculus requirement.*

Pre-Engineering / Project Lead The Way may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
<p>Delta College Architectural Technology Computer Aided Drafting Industrial Technology Education</p> <p>Mid-Michigan Community College Computer Aided Drafting & Design Technology Pre-Engineering</p> <p>Mott Community College CAD & Design Computer Network Engineering Manufacturing Simulation Technology Mechanical Operations Technology</p>	<p>Baker College CAD & Design Technology Mechanical Technology</p> <p>Central Michigan University Engineering: Electrical and Mechanical</p> <p>Ferris State University Civil Engineering Technology Mechanical Engineering</p> <p>Michigan State University Civil Engineering</p> <p>Michigan Tech. University Civil Engineering Mechanical and Electrical Engineering</p> <p>Saginaw Valley State Univ. Mechanical Engineering Industrial Technology</p> <p>Western Michigan University Paper Engineering</p>	<p>ITT Technical Institute Electrical Engineering & Communications Technology Computer & Electronics Engineering Technology Electrical Engineering Computer Drafting & Design Drafting & Design Technology</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Davenport University: Up to 28 credits</p> <p>Delta College: 5 courses</p> <p>Ferris State University: 3 courses</p>

POST SECONDARY

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Game, Database & Web Design

Career Pathway: Information Technology



Program Description

In this challenging program students learn to write computer programs and build and access databases. Students may specialize in: Video Game Development, Web Page Design and/or Business Programming/Database Design. The knowledge and skills learned transfer directly to the larger information technology industry, opening up a wide range of career paths. Students are prepared to take industry certification exams.

Program Content

- ◆ Internet Fundamentals
- ◆ Video Game Design – Programming Concepts, Visual Basic, JavaScript/C++/Java
- ◆ Database Design – Data Modeling, My-SQL, MS Access
- ◆ Web Site Design – HTML, HTML5, XHTML, DHTML, JavaScript, Cascading Style Sheets (CSS), PHP
- ◆ Ethics, Security, and Legal Issues
- ◆ Computers and Society
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in BPA (Business Professionals of America), a national organization that provide opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ Delta College Skill Day Competition
- ◆ 12th grade students will complete and present senior projects.
- ◆ Unpaid work experience
- ◆ Co-op and paid work experience may be available

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Certified Internet Web Professional
- ◆ CIW Web Foundations Associate
- ◆ CIW Web Design Professional
- ◆ CareerSafe Safety Education Training

Recommendations

- ◆ Keyboarding and computer skills
- ◆ Completed Geometry with a “C” or better
- ◆ Self-directed learner
- ◆ Critical thinking skills
- ◆ Students need to be strong, creative problems solvers with excellent communication skills.

Career Possibilities

- ◆ Computer Programmer
- ◆ System Analyst
- ◆ Web Designer
- ◆ Web Administrator
- ◆ Database Administrator
- ◆ Game Designer
- ◆ Applications Engineer
- ◆ Operating Systems Designer/Engineer
- ◆ Software Applications Architect
- ◆ Software Systems Support Engineer

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Game, Database & Web Design Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Game, Database & Web Design (11.0201)	Game, Database & Web Design (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Game, Database & Web Design (11.0201)		

High School Credit

*Game, Database & Web Design meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

1st Year Students can earn:

3.5 cr. Game, Database & Web Design
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Game, Database & Web Design
1.0 cr. Calculus, Precalculus, Algebra II B or Problem Solving in Math
0.5 cr. English 12
Credit Visual, Performing, and Applied Arts requirement
Credit On-line Learning Experience

CTE Program Completers can exchange:

Credit World Language
Credit 3rd Year Science

Game, Database & Web Design may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
<p>Delta College PC Systems Support & Technology Programming Web Information Technology</p> <p>Lansing Community College Computer Graphics Animation Computer Graphics Multimedia Digital Media Specialist</p> <p>Mott Community College Computer Occupations Technology Web Development</p>	<p>Baker College Computer Animation Digital Media Design Game Software Development</p> <p>Davenport University Database Management Computer Gaming and Simulation Web Design and Development</p> <p>Ferris State University Digital Animation & Game Design Digital Media Software Engineering</p> <p>Saginaw Valley State University Computer Forensics Computer Information Systems Computer Science</p>	<p>The Art Institute of Michigan Web Design & Interactive Media Arts</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>The Art Institutes: 1 course Baker College: 3 courses Davenport University: Up to 31 credits Delta College: 9 courses</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Graphic Arts



Career Pathway: Arts and Communication

Program Description

The Graphic Arts & Visual Imaging Technology program focuses on the major design considerations for a well-balanced digital image whether the final output is to be viewed digitally (on the web) or in print (newspaper, magazine, flyer, photograph, etc.). Students will create and apply their creations to a multimedia platform with the computer-controlled integration of text, graphics, drawings, still and moving images (video), animation and audio. Design involves the principles and elements of design, proper use of typography, mastery of computer software, hardware and peripheral devices. Emphasis is placed on project based learning experiences to understand design and production issues. Students will use emerging technologies to construct digital photography, digital and print design pieces for “real” clients. Students will develop a personal viewpoint of aesthetics and creativity in design problem solving.

Program Content

- ◆ Design Elements and Principles
- ◆ Advertising Principles
- ◆ Computer Graphics Software includes: Adobe CS5.5, Photoshop, Illustrator, InDesign, Movie Bridges, Acrobat, iDVR, Keynote
- ◆ Printing Press Operations
- ◆ Electronic Pre-Press and Troubleshooting
- ◆ Digital SLR Photography and Video
- ◆ Customer Service and Teamwork Skills
- ◆ Advertising
- ◆ Technical Communications
- ◆ Technical Math
- ◆ English and Language Arts
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ 12th grade students will complete and present senior projects.
- ◆ 11th grade students will complete and present junior projects.
- ◆ Throughout the course of the school year, students will work with “real clients” creating promotional materials to promote a product or service.
- ◆ Unpaid work experience.
- ◆ Paid work experience may be available.
- ◆ Students will be given real photography, or design competition assignments that will be entered at the local, state, or national level of competition.
- ◆ Develop traditional and digital professional portfolios.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training

Recommendations

- ◆ Keyboarding and computer skills
- ◆ Creativity
- ◆ Willingness to participate in printing, digital photography, and design competitions
- ◆ Ability to meet deadlines
- ◆ Fine Art and Drawing classes

Career Possibilities

- ◆ Animator
- ◆ Graphic Designer
- ◆ Illustrator
- ◆ Web Designer
- ◆ Video Graphics Designer
- ◆ Package Designer
- ◆ Advertising and Related Services
- ◆ 2D Cartoon Illustrator
- ◆ Pre-Printing—Post Press Operations
- ◆ Digital Image Retoucher
- ◆ Entrepreneur
- ◆ Photographer
- ◆ Desk Top Publisher

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Graphic Arts Program of Study

14 CORE CURRICULUM CREDITS

8 ADDITIONAL CREDITS

HIGH SCHOOL PLAN OF STUDY

GRADE	English 4 credits	Math 4 credits	Science 3 credits	Social Studies 3 credits	Career and Technical Education Courses	Other Required Courses	Required Language
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Graphic Arts (10.0301)	Graphic Arts (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Graphic Arts (10.0301)		

*Graphic Arts meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

1st Year Students can earn:

- 3.5 cr. Graphic Arts
- 0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

- 2.5 cr. Graphic Arts
- 0.5 cr. English 12
- 1.0 cr. Algebra II B or Problem Solving in Math
- Credit Visual, Performing, and Applied Arts requirement
- Credit On-line Learning Experience

CTE Program Completers can exchange:

- Credit World Language
- Credit 3rd Year Science

Graphic Arts may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
<p>Delta College AFA Art and Design Fine/Studio Arts, General (50.0702)</p> <p>Lansing Community College Digital Media Technology Fine Arts Graphic Communication Photographic Imaging</p> <p>Mott Community College Art & Design Foundation Graphic Design Photography</p> <p>Washtenaw Community College Digital Media Arts</p>	<p>Baker College Digital Media Design</p> <p>Central Michigan University Graphic Design</p> <p>Davenport University Business and Management</p> <p>DeVry University Web Graphic Design</p> <p>Ferris State University Graphic Design</p> <p>University of Michigan Web Graphic Design</p>	<p>The Art Institutes of Michigan Graphic Design, Visual Communications</p> <p>ITT Tech Institute Information Technology Multimedia Association of Applied Science</p> <p>International Academy of Design and Technology Web Graphic Design</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>The Art Institutes: 1 course</p> <p>Baker College: 4 courses</p> <p>Davenport University: Up to 24 credits</p> <p>Delta College: 2 courses</p> <p>Ferris State University: 1 course</p> <p>Kirkland Community College: 1 courses</p> <p>Mid-Michigan Community College: Articulation determined by portfolio</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Act of 1973, and the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Law, Public Safety & Security

Career Pathway: Education and Human Services



Program Description

This program is designed to provide the knowledge and skills necessary for a student to pursue a career or higher education in law enforcement, emergency services, security and protective services, corrections and legal services. Topics of study include criminal and family law, juvenile justice, search, arrest and interrogation, crime scene investigation, corrections, forensic science, emergency management, and written and verbal communication. Students are trained in fingerprinting, casting, handcuffing, breathalyzer testing, narcotics, vice, and accident investigations. Students will earn certification in First Aide and CPR and prepare to pass the Michigan Commission on Law Enforcement Standards Physical Agility Test.

Program Content

- ◆ Personal Management and Employability Skills
- ◆ Michigan Law & Criminal Procedure/Juvenile Law
- ◆ Introduction to Criminal Justice
- ◆ Corrections
- ◆ Forensic Science
- ◆ Criminal Investigation
- ◆ Police Patrol & Operations
- ◆ Defensive Tactics
- ◆ Vehicle Crash Investigation
- ◆ Legal Research
- ◆ Technical Communications
- ◆ Ethics and Legal Responsibilities
- ◆ Mock Trial and Constitutional Law.
- ◆ Crime Scene Investigation and Search and Seizure
- ◆ Handcuffing, Prisoner Control, Use of Deadly Force
- ◆ Interviewing, Interrogation, and Report Writing
- ◆ Living Wellness and Physical Fitness Training

Special Program Features

- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ 12th grade students will complete and present senior projects.
- ◆ Participation in MCOLES Police Agility Testing.
- ◆ Expert Speaker Series
- ◆ Unpaid work experience
- ◆ Ride alongs with local police and sheriff

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CPR/AED for the Professional Rescuer and First Aid
- ◆ CareerSafe Safety Education Training

Program Requirements

- ◆ Good reading, writing and speaking skills
- ◆ Able to participate in physical conditioning and agility training
- ◆ Ability to work effectively as a team member
- ◆ Capacity to successfully complete college level studies

Career Possibilities

- ◆ Police Officer
- ◆ Attorney
- ◆ Corrections Officer
- ◆ Parole/Probation Officer
- ◆ Security Officer
- ◆ Forensic Scientist
- ◆ Evidence Technician

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Law, Public Safety & Security Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Law, Public Safety & Security (12.9999)	Law, Public Safety & Security (meets VPAA requirement)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Law, Public Safety & Security (12.9999)		

High School Credit

1st Year Students can earn:

- 3.0 cr. Law, Public Safety & Security
- 0.5 cr. English 12
- 0.5 cr. Forensic Science

2nd Year Students and 1st Year Seniors can earn:

- 2.0 cr. Law, Public Safety & Security
- 0.5 cr. Forensic Science
- 0.5 cr. English 12
- 1.0 cr. Algebra II B or Problem Solving in Math
- Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

- Credit World Language

*Law, Public Safety & Security meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

Law, Public Safety & Security may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Criminal Justice — Corrections, Law Enforcement, Basic Police Training, Security/ Loss Prevention Specialist	Baker College Corrections Officer Criminal Justice Legal Studies	Dorsey Schools Legal Administrative Assistant Legal Secretary	Program completers may qualify for articulated college credit from the following colleges and universities: Davenport University: Up to 19 credits Delta College: 3 courses Ferris State University: 1 course Kirkland Community College: 2 courses Mid-Michigan Community College: 2 courses
Grand Rapids Community College Corrections Law Enforcement	Central Michigan University Criminal Justice/Sociology Human Services Law & Economics	Everest Institute Criminal Justice/ Homeland Security Legal Assistant/ Paralegal	
Lansing Community College Correctional Officer	Ferris State University Criminal Justice – Corrections, Generalist Law Enforcement Specialist Forensics	ITT Technical Institute Criminal Justice Criminology & Forensic Technology Paralegal	
Mott Community College Autopsy Assistant Criminal Justice	Saginaw Valley State University Legal Studies Pre-Law	Kaplan Career Institute Criminal Justice	

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Medical Careers



Career Pathway: Health (Therapeutic) Services

Program Description

Health care is the largest and fastest growing industry in the United States. In this rigorous program, students achieve a solid background in the fundamentals of health care and explore a wide variety of health careers. The combination of school-based instruction and work-site internships helps students determine which careers might be right for them. Students will also earn college credits and professional certifications. An Advanced Medical Careers class is available for highly motivated, college bound students.

Program Content

- ◆ Medical Career Investigations (Therapeutic, Diagnostic, Health Information, and Support Services)
- ◆ Health Care Foundation Skills
- ◆ CPR/AED for the Professional Rescuer
- ◆ Safety/Universal Precautions
- ◆ Medical Terminology
- ◆ Medical Ethics, Legal Issues, Confidentiality, and Professional Etiquette
- ◆ Patient Care and Vital Signs
- ◆ Infection Control
- ◆ Journal and Report Writing
- ◆ Anatomy and Physiology
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in HOSA (Health Occupations Students of America), a national organization that provides opportunities to develop teamwork, leadership, and career skills valued by healthcare providers.
- ◆ 12th grade students will complete and present senior projects.
- ◆ Students participate in career internships at local hospitals and health care facilities for approximately 90 hours during which they participate in and observe medical procedures.
- ◆ Participation in community service projects.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ National Health Care Foundation Skill Standards Certificate
- ◆ CPR/AED for the Professional Rescuer and First Aid
- ◆ Student Passport Alliance— Great Lakes Bay Region
- ◆ CareerSafe Safety Education Training

Program Requirements

- ◆ Up-to-date immunizations including: Hepatitis B, a negative TB test, and background check is required
- ◆ Adherence to dress code and grooming requirements
- ◆ Uniform must be purchased and is required to be worn daily.
- ◆ Transportation to and from health care facility may be required for specialized career options
- ◆ “C” or better grades in math and science
- ◆ Good communication skills

Career Possibilities

- ◆ Pharmacist/Pharmacy Technician
- ◆ Paramedic/EMT
- ◆ Optometrist/Vision Care Technician
- ◆ Physical/Occupational Therapist/Aide
- ◆ Surgical Technologist/Assistant
- ◆ Lab Technician/Aide
- ◆ Radiographer/Aide
- ◆ Nutritionist
- ◆ Physician/Assistant
- ◆ Psychologist
- ◆ Dental Hygienist/Aide
- ◆ Respiratory Therapist/Aide

Length of Program and Population Served

1-Year program for 11th and 12th grade students.

Students who successfully complete the program with a “B” or better may be recommended for the 12th grade Advanced Medical Careers program.

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Medical Careers Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
9	English 9 4 credits	Algebra I or higher 4 credits	Biology 3 credits	World History & Geography 3 credits	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Medical Careers (51.0000)	VPAA	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Medical Careers (51.0000)		

*Medical Careers meets English 12 and 4th year math requirement and may also meet Algebra II B requirement.

High School Credit

Students can earn:

- 3.0 cr. Medical Careers
- 0.5 cr. English 12
- 0.5 cr. Anatomy & Physiology

* Algebra II B or Problem Solving in Math is available for seniors with 2.0 cr. Medical Careers

Medical Careers may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Dental Hygiene Physical Therapist Assistant Surgical Technology Oakland Community College Hospital Pharmacy Technology Medical Assisting Wayne Community College Dental Laboratory Technician Dietetic Technology	Baker College Emergency Services Management Physical Therapist Assistant Radiologic Technology Davenport University Medical Assisting BSN - Nursing, RN Health Information Technician Ferris State University Diagnostic Medical Sonography Respiratory Care Saginaw Valley State University Medical Laboratory Science	Dorsey Schools Dental Assistant Pharmacy Technician Everest Institute Medical Administrative Assistant Patient Care Technician Mobile Medical Response Emergency Medical Technician	Program completers may qualify for articulated college credit from the following colleges and universities: Baker College: 1 course Davenport University: Up to 17 credits Delta College: 5 courses Ferris State University: 2 courses Kirkland Community College: 1 course Saginaw Valley State University: 1 course

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Nursing Occupations

Career Pathway: Health (Therapeutic) Services



Program Description

This program is an excellent way for students to jump-start their nursing career. This intensive program provides students both academic and technical skill preparation through school-based, laboratory and clinical experiences in hospitals, clinics, and long-term care facilities. Students complete requirements to be certified as a Competency Evaluated Nurse Aide. An Advanced Nursing class is available for highly motivated high school seniors.

Program Content

- ◆ Certified Nurse Aide Skills
- ◆ Health Care Foundation Skills
- ◆ CPR/AED for the Professional Rescuer
- ◆ Safety/Universal Precautions
- ◆ Medical Terminology
- ◆ Medical Ethics, Legal Issues, and Confidentiality
- ◆ Patient Care and Vital Signs
- ◆ Infection Control
- ◆ Journal and Report Writing
- ◆ Anatomy and Physiology
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Students may participate in HOSA (Health Occupations Students of America), a national organization that provides opportunities to develop teamwork, leadership, and career skills valued by healthcare providers.
- ◆ 12th grade students will complete and present senior projects.
- ◆ Students participate in clinical experiences at local hospitals and long-term health care facilities for approximately 90 hours.
- ◆ Participation in community service projects.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Certified Nurse Aide
- ◆ National Health Care Foundation Skill Standards Certificate
- ◆ CPR/AED for the Professional Rescuer and First Aid
- ◆ CareerSafe Safety Education Training

Program Certifications

- ◆ State Certified Nurse Aide Training Program

Program Requirements

- ◆ Up-to-date Immunizations including: Hepatitis B, a negative TB test, and a background check is required
- ◆ Adherence to dress code and grooming requirements
- ◆ Uniform must be purchased and is required to be worn daily.
- ◆ Sufficient motor function to carry out activities required of nurse aides
- ◆ Able to do moderate lifting
- ◆ Good communication skills
- ◆ "C" or better grades in math and science

Career Possibilities

- ◆ Certified Nurse Aide/CNA
- ◆ Registered Nurse
- ◆ Home Health Care Aide
- ◆ Licensed Practical Nurse
- ◆ Nurse Anesthetist
- ◆ Nurse Educator
- ◆ Public Health Educator
- ◆ Nurse Practitioner
- ◆ Medical Assistant
- ◆ Paramedic/EMT
- ◆ Clinical Nurse Specialist

Length of Program and Population Served

1-Year program for 11th and 12th grade students.

Students who successfully complete the program with a "B" or better may be recommended for the 12th grade Advanced Nursing Occupations program .

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Nursing Occupations Program of Study

HIGH SCHOOL PLAN OF STUDY	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
	GRADE	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
		4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language	
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language	
11	English 11	Algebra II or higher		Government Economics	Nursing Occupations (51.0000)	VPAA		
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Nursing Occupations (51.0000)			

*Nursing Occupations meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

Students can earn:

- 3.0 cr. Nursing Occupations
- 0.5 cr. English 12
- 0.5 cr. Anatomy & Physiology

- * 1.0 Algebra II B or 4th year Math available for seniors with
- 2.0 cr. Nursing Occupations

Nursing Occupations may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

POST SECONDARY	COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
	<p>Delta College Dental Assisting Medical Office Professions Radiography</p> <p>Jackson Community College Nursing Pharmacy Technician Practical Nursing</p> <p>Macomb Community College Physical Therapist Assistant Surgical Assistant</p>	<p>Baker College Phlebotomy Technician Respiratory Care Surgical Technology</p> <p>Davenport University Medical Assisting BSN - Nursing, RN Health Information Technician</p> <p>Ferris State University Allied Health Sciences Respiratory Care</p> <p>Saginaw Valley State University Health Science</p>	<p>Dorsey Schools Nursing Assistant Specialist Patient Care Technician</p> <p>Kaplan Career Institute Medical Office Assistant Pharmacy Technician</p> <p>Mobile Medical Response Emergency Medical Technician</p>	<p>Program completers may qualify for articulated college credit from the following colleges and universities:</p> <p>Baker College: 1 course</p> <p>Davenport University: Up to 17 credits</p> <p>Delta College: 5 courses</p> <p>Ferris State University: 2 courses</p> <p>Kirkland Community College: 1 course</p> <p>Saginaw Valley State University: 1 course</p>

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Advanced Medical Careers / Nursing



Career Pathway: Health (Therapeutic) Services

Program Description

The Advanced Medical Careers / Nursing program is designed for highly motivated high school seniors who are pursuing careers in the medical profession or nursing-related fields. The rigorous academic curriculum will engage students in college level work and qualify students to earn college credits in math, science and medical terminology. Students will also develop skills and techniques of medical assisting. Classroom instruction is complemented by laboratory experience and clinical internships in area hospitals and healthcare facilities. Students who have successfully completed the Medical Careers or Nursing Occupations program, and have an overall GPA of 2.0 or better, may apply to take this challenging course.

Program Content

- ◆ Clinical Medical Assisting
- ◆ Medical Terminology
- ◆ Journal and Report Writing
- ◆ Universal Precautions/Safety
- ◆ Personal Management and Employability Skills
- ◆ Communications
- ◆ Chemistry/Cell Biology
- ◆ Math for Allied Health

Special Program Features

- ◆ Students complete internships at local hospitals and health care facilities for approximately 150 hours during which they participate in and observe medical procedures.
- ◆ Students may participate in HOSA (Health Occupations Students of America) a national organization, that provides opportunities to develop teamwork, leadership, and career skills valued by healthcare providers.
- ◆ Students complete and present Senior Projects.
- ◆ Participation in SCC Health Fair.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ Clinical Nursing Assistant
- ◆ Licensed Emergency Medical Technician
- ◆ National Healthcare Foundation Skills Standards Certificate

Program Requirements

- ◆ Successful completion of Medical Careers or Nursing Occupations with a B or better and instructor recommendation.
- ◆ 2.0 cumulative G.P.A.
- ◆ "C" or better grades in science and math
- ◆ Senior Status
- ◆ Uniform must be purchased and worn daily
- ◆ Adhere dress code and grooming requirements

- ◆ Provide proof of updated immunizations (Hepatitis B and a Negative TB test) and pass background check
- ◆ Transportation to and from health care facility may be required.
- ◆ Ability to work independently
- ◆ Capacity to successfully complete college level studies in science, mathematics, and English
- ◆ Good communication skills

Career Possibilities

- ◆ Certified Nurse Aide (CNA)
- ◆ Clinical Lab Technician/Aide
- ◆ Clinical Nurse Specialist
- ◆ Dental Hygienist/Dental Assistant
- ◆ EKG Technician
- ◆ Emergency Medical Technician
- ◆ Medical Assistant
- ◆ Nurse Anesthetist
- ◆ Nurse Educator
- ◆ Nurse Practitioner
- ◆ Nutritionist
- ◆ Optometrist/Vision Care Technician
- ◆ Paramedic
- ◆ Pharmacist/Pharmacy Technician
- ◆ Physical/Occupational/Recreation Therapist/Aide
- ◆ Physician Assistant
- ◆ Public Health Educator
- ◆ Radiographer/Aide
- ◆ Registered Nurse or Licensed Practical Nurse
- ◆ Respiratory Therapist/Aid
- ◆ Surgical Technologist/Assistant

Length of Program and Population Served

1-Year program for 12th grade students.

Time Program is Available

7:03 a.m. - 10:05 a.m.

Advanced Medical Careers / Nursing Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Medical Careers or Nursing Occupations (51.0000)	VPAA	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Adv. Medical Careers/Nursing (51.0000)		

*Advanced Nursing Occupations meets English 12 and 4th year math requirement and may meet Algebra II B requirement.

High School Credit

Students can earn:

- 2.0 cr. Advanced Medical Careers / Nursing
- 1.0 cr. Mathematics for Allied Health or Algebra II B
- 0.5 cr. English 12
- 0.5 cr. Chemistry & Cell Biology
- Credit Visual, Performing, and Applied Arts requirement
- Credit Online Learning

CTE Program Completers can exchange:

- Credit World Language

Advanced Nursing Occupations may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Nursing Physical Therapist Assistant Practical Nurse Radiography Respiratory Care Surgical Technology Grand Rapids Community College Nursing Radiologic Technology Mott Community College Occupational Therapy Assistant Paramedic	Baker College Health Services Administration Practical Nursing Therapeutic Massage Central Michigan University Dietetics Health Administration Public Health Education & Promotion Davenport University Medical Assisting BSN-Nursing, RN Health Information Technology Ferris State University Biotechnology Nursing Saginaw Valley State Univ. Nursing	Dorsey Schools Dialysis Technician Medical Administration & Billing Medical Assistant Practical Nurse ITT Tech Nursing Mobile Medical Response Emergency Medical Technician	Program completers may qualify for articulated college credit from the following colleges and universities: Baker College: 1 course Davenport University: Up to 24 credits Delta College: 5 courses Ferris State University: 2 courses Kirkland Community College: 1 course Saginaw Valley State University: 1 course

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

Welding Technology

Career Pathway: Technical and Engineering Systems



Program Description

Our Welding Technology program provides tremendous opportunities for students to enter a high skill, high wage career. Welding is the most common method for permanently bonding metal. Due to its strength, welding is used to construct and repair cars, appliances and many other products. In construction, welding is used to join pipes, beams, and reinforcing rods. Currently, the Saginaw Career Complex welding program is offered in cooperation with Plumbers & Steamfitters, Local 85. Program emphasis is on GMAW, SMAW, GTAW, and structural and pipe welding. Due to an increase in industrial construction, there are numerous opportunities for skilled welders in the Saginaw region.

Program Content

- ◆ Safety
- ◆ Welding Fundamentals
- ◆ Welding Detail Drawings & Print Reading
- ◆ Metal Characteristics & Properties
- ◆ Fundamentals of Cutting Processes
- ◆ Oxyfuel Cutting
- ◆ GMAW/FCAW Equipment & Setup
- ◆ SMAW Equipment & Setup
- ◆ SMAW-Electrodes
- ◆ Welding Joing Fit-up and Adjustment
- ◆ Weld Quality
- ◆ GTAW Carbon Steel Pipe
- ◆ GTAW Aluminum
- ◆ GMAW/FCAW Equipment & Setup
- ◆ FCAW
- ◆ SMAW - Open Root Pipe Welds
- ◆ SMAW - Stainless Steel Groove and Pipe Welds
- ◆ Air Carbon Arc Cutting and Gouging
- ◆ Plasma Arc Cutting
- ◆ Personal Management and Employability Skills

Special Program Features

- ◆ Apprenticeship opportunities with Plumbers & Steamfitters, Local 85
- ◆ Students may participate in SkillsUSA, a national organization that provides opportunities to develop teamwork, personal leadership, and career skills valued by employers.
- ◆ Unpaid work experience
- ◆ Program is offered at Local 85 three days a week and at Saginaw Career Complex two days.

Student Certifications

Program completers may qualify for the following industry certifications:

- ◆ CareerSafe Safety Education Training

Program Requirements

- ◆ Safety Shoes
- ◆ Eye Protection (provided for nonprescription)
- ◆ Proper Work Clothes
- ◆ Good Hand-Eye Coordination, Eyesight, & Depth Perception
- ◆ Mechanical Aptitude
- ◆ Good Physical Condition
- ◆ Ability to Pay Careful Attention to Detail and Follow Instructions Closely
- ◆ Students Will Be Selected to Participate in this Course Offering

Career Possibilities

- ◆ Fabrication Shop Welder
- ◆ Fabrication Shop Fitter
- ◆ Mine Maintenance Welder
- ◆ Industrial Plant Welder
- ◆ Pipe Fitter
- ◆ Pipe Welder
- ◆ Plate Welder
- ◆ Boilermaker Welder
- ◆ Pipefitter Welder
- ◆ Pipeline Welder
- ◆ Combination Welder
- ◆ Welding Machine Operator

Length of Program and Population Served

2 year program for 11th and 12th grade students

Times Program is Available

7:03 a.m. - 10:05 a.m. and 11:35 a.m. - 2:37 p.m.

Welding Technology Program of Study

GRADE	14 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS		
	English	Math	Science	Social Studies	Career and Technical Education Courses	Other Required Courses	Required Language
	4 credits	4 credits	3 credits	3 credits			
9	English 9	Algebra I or higher	Biology	World History & Geography	—	Health Physical Education	World Language
10	English 10	Geometry or higher	Chemistry or Physics or Science Elective	American History & Geography	—		World Language
11	English 11	Algebra II or higher		Government Economics	Welding Technology (46.0502)	Welding Technology (meets VPAA req.)	
12	*English 12	*4th year Math	Chemistry or Physics or Science Elective		Welding Technology (46.0502)		

HIGH SCHOOL PLAN OF STUDY

High School Credit

**Welding Technology meets English 12 and 4th year math requirement and may meet Algebra II B requirement.*

1st Year Students can earn:

3.5 cr. Welding/Pipefitting Technology
0.5 cr. English 12

2nd Year Students and 1st Year Seniors can earn:

2.5 cr. Welding/Pipefitting Technology
0.5 cr. English 12
1.0 cr. Algebra II B or Problem Solving in Math
Credit Visual, Performing, and Applied Arts requirement

CTE Program Completers can exchange:

Credit World Language
Credit 3rd Year Science

Welding/Pipefitting Technology may lead to industry recognized certifications, occupational opportunities or post-secondary education options. Students may earn articulated college credit(s) depending on post-secondary option selected.

COMMUNITY COLLEGES	UNIVERSITIES	TECHNICAL PROGRAMS	COLLEGE CREDIT
Delta College Welding Engineering Technology Grand Rapids Community College Welding Technology Lansing Community College Welding Technology Mott Community College Welding Washtenaw Community College Welding	Baker College Welding Ferris State University Welding Engineering Technology Northern Michigan University Welding	Various programs offering certificates are available	Program completers may qualify for articulated college credit from the following colleges and universities: Alpena Community College: 2 courses Baker College: 3 courses Davenport University: Up to 16 credits Delta College: 7 courses Ferris State University: 1 course Kirkland Community College: 1 course Mid-Michigan Community College: 2 courses

POST SECONDARY

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, disability, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State Laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500. Inquiries regarding compliance with Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, EEO & Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607, (989) 399-6500.

10 Great Reasons to Attend



Access to Post-Secondary Apprenticeships

Develop Your Skills Using Career Specific Technology

Earn Free College Credit

Engage in Hands-on Learning Activities

Get a Head Start on Your Future

Get Involved with Career & Technical Student Organizations

Learn in a Diverse Environment

Opportunity to be Awarded Thousands of Dollars in Scholarships

Participate in Work-Based Learning

Test for Industry Certifications

Visit our website at www.spsd.net/scc

Like us on





Saginaw Career Complex ENROLLMENT APPLICATION

2102 Weiss Street • Saginaw, MI 48602 • PHONE (989) 399-6150 • FAX (989) 399-6165

Name _____
Last First Middle Initial

Address _____ Home Telephone _____

City _____ Zip _____ Parent Cell Phone # _____

Gender _____ Birth Date _____ Place of Birth _____
City/County State

Race: (please check one) American Indian/Alaskan Native White/Caucasian Latino/Hispanic

African American/Black Asian American/Pacific Islander Multi Racial: Yes _____ No _____

Parent/Guardian Name _____ Relationship to student _____

Parent/Guardian Address (if different from student's) _____
Street City Zip

Parent E-mail Address: _____ Phone # _____

Emerg. Contact _____ Relationship _____ Phone # _____

High School _____ School District of Residence _____

Program Requested (1st Choice) _____

Program Requested (2nd Choice) _____

Preferred Session:

1st - 7:03 AM - 10:05 AM

2nd - 11:35 AM - 2:37 PM

1 2 EITHER
(please circle one)

Parent's Signature _____ Date _____

Student's Signature _____ Date _____

CTE ADMINISTRATOR APPROVAL _____

- Program choice is for an entire school year
- Returning Seniors are given priority for session selection
- Final course offerings are subject to change dependent upon enrollment
- Student may be required to complete a drug assessment and background check

OFFICE USE ONLY

Date Application Received: _____

Date Entered into Skyward: _____

TO BE COMPLETED BY HOME SCHOOL COUNSELOR

PLEASE CHECK ONE

- New enrollee
- Returning student to same program
- Returning student to new program

Student Unique ID Code (State UIC code) _____

Current Grade Level: 10th 11th 12th Student GPA: _____
(please circle one)

of Credits Earned to Date: _____ Date of Graduation: _____

High School Program: Regular Ed. Special Ed. 504 Student

Counselor's Signature _____

Career Pathway: _____

PSAT or SAT Scores - Reading _____ Writing _____ Math _____ Essay _____

Please attach these documents: Student Transcript IEPC Date of IEPC: _____

Non-Discriminatory Policy - It is the policy of the Board of Education and the School District not to unlawfully discriminate on the basis of handicap, race, religion, national origin, sex, age, marital status, height or weight. The District reaffirms its policy to comply with Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliott-Larsen Civil Rights Act, the Michigan Handicappers' Civil Rights Act, the Americans With Disabilities Act of 1990, and all other applicable Federal and State laws and regulations prohibiting discrimination. Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act of 1990, which prohibits discrimination on the basis of handicap, should be directed to: Director, Special Education and Student Support Services, Saginaw Board of Education, 550 Millard Street, Saginaw, Michigan 48607 - Phone 989-399-6500. Inquiries regarding compliance with Title VI, VII of the Civil Rights Act of 1964 or Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, and inquiries related to all other Federal and State laws prohibiting unlawful discrimination should be directed to: Assistant Superintendent, Human Resources, Labor Relations, and Support Services, Saginaw Board of Education, 550 Millard St., Saginaw, MI, 48607 - Phone 989-399-6500.

Saginaw Career Complex PROGRAMS

Session 1 - 7:03 AM - 10:05 AM

Session 2 - 11:35 AM - 2:37 PM

Program Session

Arts and Communication Pathway

Graphic Arts 1
Graphic Arts 2

Business Services Technology Pathway

Business, Management & Admin. 1
Business, Management & Admin. 2
Computer Technology & Networking 1
Computer Technology & Networking 2
Game, Database & Web Design 1
Game, Database & Web Design 2
Culinary & Hospitality Management 1
Culinary & Hospitality Management 2

Education & Human Services Pathway

Cosmetology - 1st Year (juniors only)
 Valley Beauty 1
 In-Session 1
Cosmetology - 2nd Year (seniors only)
 Valley Beauty 2
 In-Session 2
Careers in Education 1
Careers in Education 2
Law, Public Safety & Security 1
Law, Public Safety & Security 2

Environmental Technologies Pathway

Animal & Veterinary Science 1
Animal & Veterinary Science 2
Agriscience & Technologies 1
Agriscience & Technologies 2
Health Services Pathway
Advanced Medical Careers* 1
Advanced Nursing Occupations* 1
Medical Careers 1
Medical Careers 2
Nursing Occupations 1
Nursing Occupations 2

Technical/Engineering Systems Pathway

Auto Collision Repair & Refinishing 1
Auto Collision Repair & Refinishing 2
Building Construction 1
Building Construction 2
Computerized Machining (CNC) 1
Engineering/Project Lead The Way 1
Engineering/Project Lead The Way 2
Welding Technology 2

*Prerequisite required

**Get a head start
on your career!**



**Enroll at the
Saginaw Career
Complex today!**

