

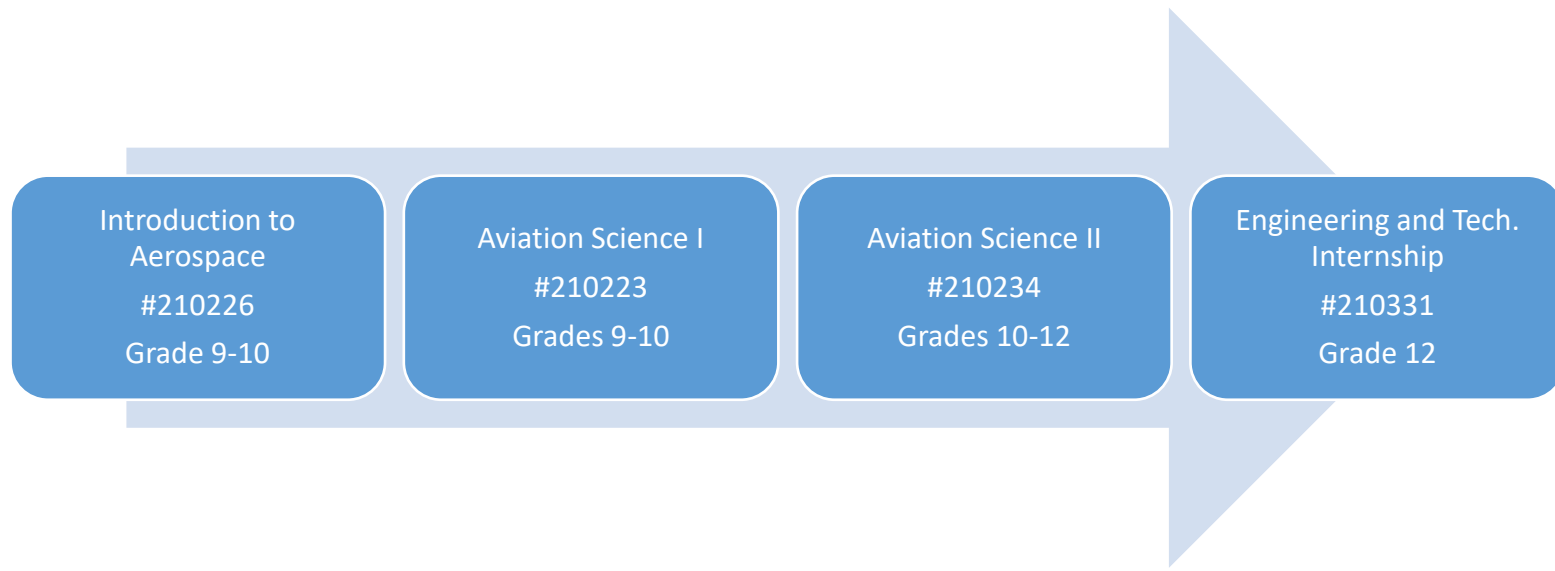
Pathways Prior to 2017-2018

- Students enrolled in a pathway prior to 2017-2018 have two years to complete the pathway as it is designed.
- Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways beginning on page 48.

Aeronautics and Aerospace Pathways

Flight and Aeronautics

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.



Certifications students may earn as a result of completing this pathway: FAA Private Pilot Written test

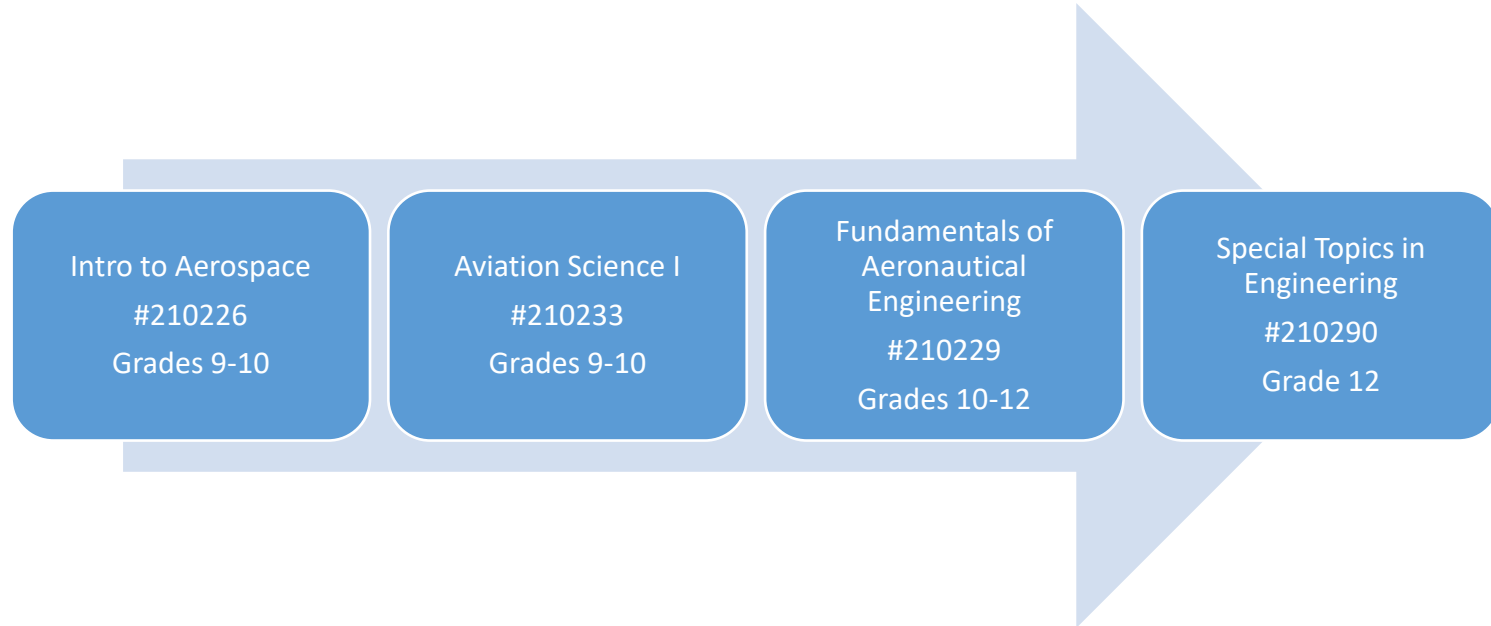
Flight simulators are used in this pathway.

This pathway prepares students for the following careers: Aerospace Engineer, Aerospace Technician, Private Pilot, Commercial Pilot, Crew Chief, Flight Instructor, Commercial Aviator, Military Aviator, Military Navigator

Aeronautics and Aerospace Pathways

Aeronautical Engineering

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.



Certifications students may earn as a result of completing this pathway: FAA Private Pilot Written test

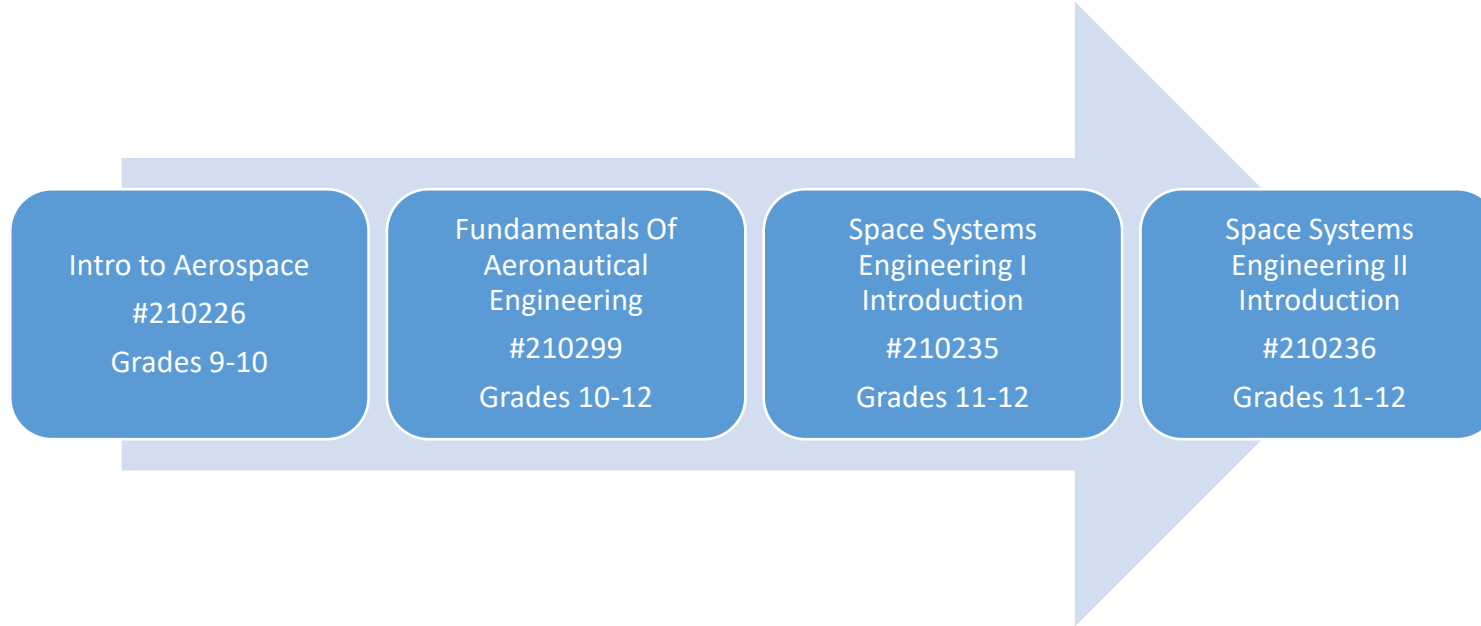
Wing Design Competition will be open to any student who has completed Fundamentals of Aeronautical Engineering. Flight simulators are used in this pathway.

This pathway prepares students for the following careers: Astronaut, Aerospace Engineer, Aerospace Technician, Mechanical Engineer, Aircraft Mechanic, Crew Chief, Aircraft Manufacturing Manager, Aircraft Structural Assembler, Quality Control Inspector, Mechanical Design Engineer

Aeronautics and Aerospace Pathways

Space Systems Engineering

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.

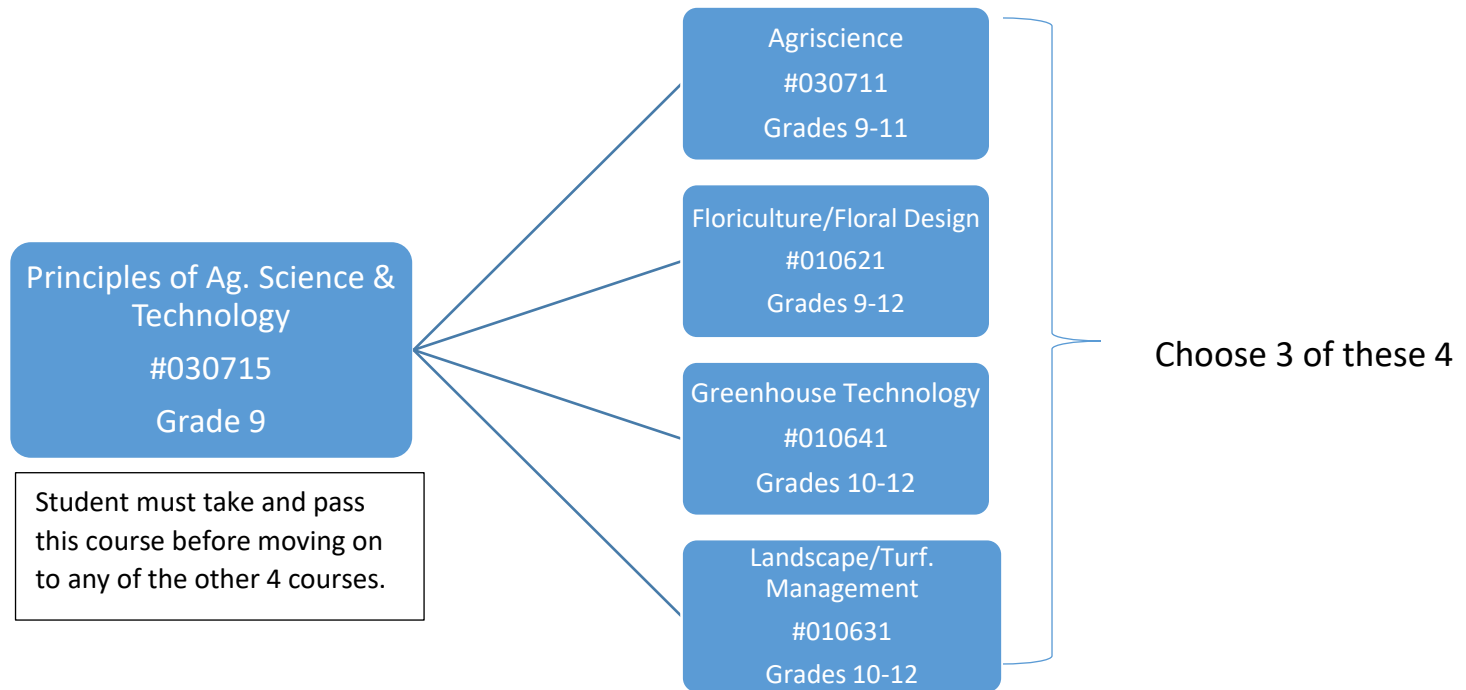


Wing Design Competition will be open to any student who has completed Fundamentals of Aeronautical Engineering.

This pathway prepares students for the following careers: Astronaut, Aerospace Engineer, Aerospace Technician, Mechanical Engineer, Mechanical Design Engineer, Electronics Engineer, Electronics Technician, Mission Planner, Orbit Analyst, Satellite Flight Engineer

Agriculture Education Pathway

Horticulture & Plant Science System



Certifications students may earn as a result of completing this pathway: Horticulture KOSSA

This pathway prepares students for the following careers: Horticulturist, Agronomist, Landscaper, Farmer, Scientist, Landscape Architect, Nursery / Greenhouse, Grower, Botanist

Business and Marketing Education Pathways

Accounting

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.

You must take these 3 courses:

Accounting and Finance
#060122
Grades 10-12

Business Principles
#060111 (9-10) or
Digital Literacy # 060112
(9-12) or Computer
Literacy #110110 (9-10)

Financial Accounting II
#070122
Grades 10-12

Choose one of these 2 courses:

Business
Management
#060411
Grades 11-12

Computer Apps
Advanced
#070743
Grades 10-12

Certifications students may earn as a result of completing this pathway: Accounting KOSSA

This pathway prepares students for the following careers: Accountant, Forensic Accountant, Planner, Tax Preparer, Auditor, Auditing Clerk, Budget Analyst, Tax Examiner

Business and Marketing Education Pathways

Business Management

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.

You must take both of these courses:

Business Principles
#060111 (9-10) or Principles
of Marketing
#080716 (9-10)

Business Management
#060411
Grades 11-12

You must take both of these courses:

Accounting and
Finance Foundations
#060122
Grades 10-12

Digital Literacy
#060112
Grades 9-12

Certifications students may earn as a result of completing this pathway: Business Management KOSSA, Assessment of Skills and Knowledge for Business- Fundamental Business Concepts (#ME05), Assessment of Skills and Knowledge for Business- Fundamental Business Concepts (#ME05), Assessment of Skills and Knowledge for Business (ASK) - Concepts of Entrepreneurship/Management (#ME22)

This pathway prepares students for the following careers: Entry Level Manager, Money Manager, Account Manager, Real Estate Agent, Venture Capitalist, Insurance Agent, Association Manager, Quality Controller

Business and Marketing Education Pathways

Business Technology

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.

You must take both of these courses:

Business Principles
#060111 (9-10) or Digital
Literacy
#060112 (9-12)

Business Management
#060411
Grades 11-12

You must take both of these courses:

Computer Apps
Advanced
#070743
Grades 10-12

Math for Business
and Industry
#270641
Grades 12

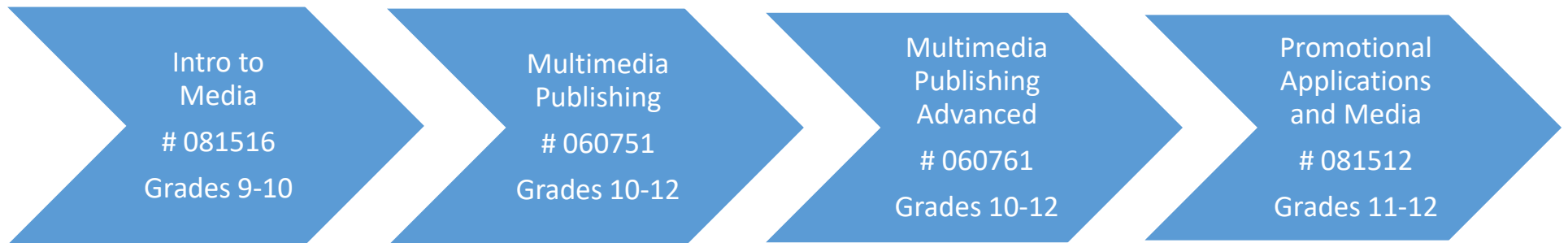
Certifications students may earn as a result of completing this pathway: Assessment of Skills and Knowledge for Business (ASK) - Fundamental Business Concepts (#ME05)

This pathway prepares students for the following careers: Data Entry Clerk, Telephone Operator, Receptionist/Information Clerk, Courier/Messenger

Business and Marketing Education Pathways

Multimedia

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.



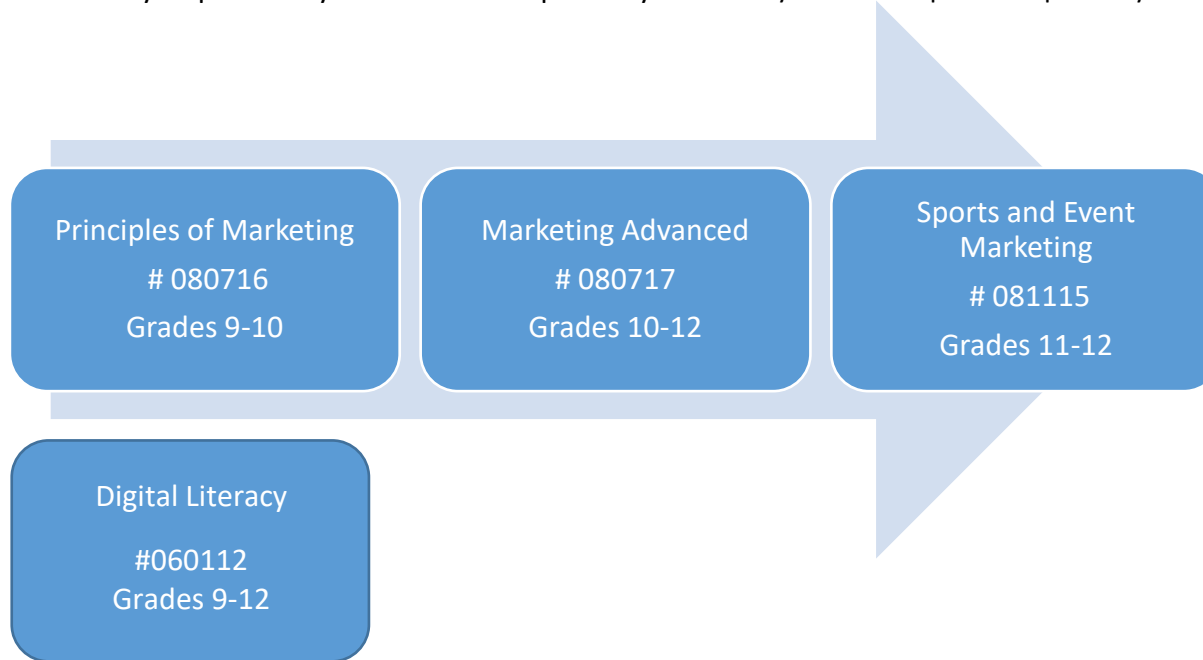
Certifications students may earn as a result of completing this pathway: InDesign CS6 or Photoshop CS6, Apple Certified Professional - 3 Exams Required - Pages, Numbers, Keynote

This pathway prepares students for the following careers: Public Relations Specialist, Desktop Publisher, Proofreader, Web Designer, Multimedia Artist

Business and Marketing Education Pathways

Marketing

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.



Certifications students may earn as a result of completing this pathway: Marketing KOSSA, Assessment of Skills and Knowledge for Business (ASK) - Fundamental Marketing Concepts (#ME06)

This pathway prepares students for the following careers: Marketing Specialist

Computer IT Pathways

Information Support and Services

Required

Computer
Literacy
#110110
Grades 9-10



Computer
Hardware and
Software
110101
Grades 10-12

Help Desk
Operation
110102
Grades 10-12

Choose at least one:

Management
of Support
Services
110302
Grades 10-12

Internet
Technologies
110917
Grades 10-12

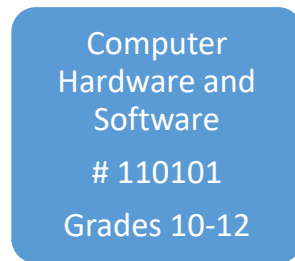
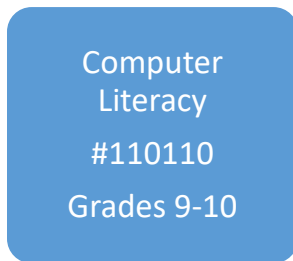
Certifications students may earn as a result of completing this pathway: Information Support and Services KOSSA

This pathway prepares students for the following careers: Computer Technician, Customer Service Representative, Data Entry Technician, Electronics Technician, Quality Assurance Tester, Technical Support, Help Desk Associate, Technical Writing Clerk

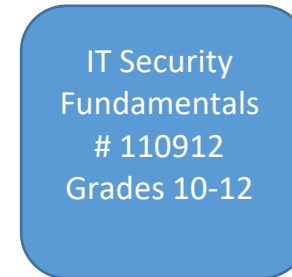
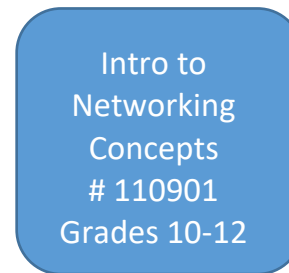
Computer IT Pathways

IT Network Security

Required



Required



Certifications students may earn as a result of completing this pathway: Network Administration, CompTIA - Security+

This pathway prepares students for the following careers: Networking Security Administrator, Electronics Security Engineer, Hardware, Security Engineer, System Security Administrator, Quality Assurance System Security Analyst, Security Expert

Computer IT Pathways

Computer Programming

Required

Required

Computer
Literacy
110110
Grades 9-10

Computational
Thinking
110251
Grades 10-12

Java
Programming I
Honors
#110205
Grades 10-12



Java
Programming II
Honors
110206
Grades 10-12

Certifications students may earn as a result of completing this pathway: Computer Programming KOSSA, Java SE 8 Programmer I

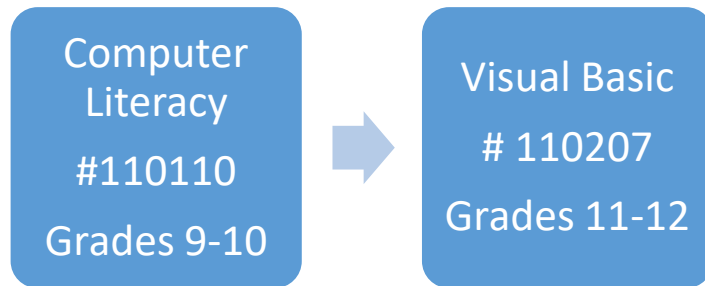
This pathway prepares students for the following careers: Computer Programmer, Software Developer, Database Administrator, Computer Hardware Engineer, Computer Systems Analyst, Computer Network Architect, Web Developer, Information Security Analyst, Computer Systems Manager, Information Systems Manager, Project Manager

Computer IT Pathways

Computer Science

Students currently or previously enrolled in this pathway have two years to complete the pathway as it is designed.

Required



Required



Certifications students may earn as a result of completing this pathway: Computer Programming KOSSA

This pathway prepares students for the following careers: Software Developer, Database Administrator, Computer Hardware Engineer, Computer Systems Analyst, Computer Network Architect, Web Developer, Information Security Analyst, Computer Programmer, Computer Systems Manager, Information Systems Manager, Project Manager

Family and Consumer Science Education Pathways

Culinary and Foods Services



Certifications students may earn as a result of completing this pathway: Culinary and Food Services KOSSA

This pathway prepares students for the following careers: Chef/Cook, Baker, Entrepreneur, Food Inspector, Butcher

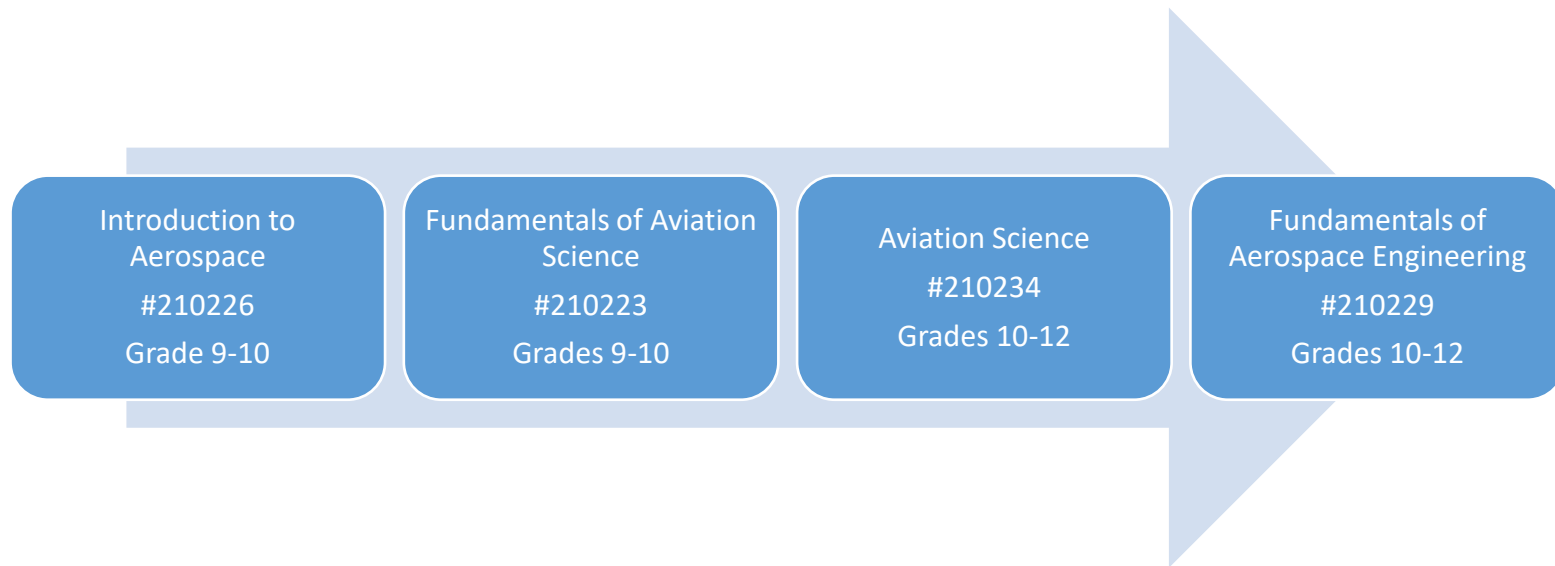
New/ Revised Pathways

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.

Flight and Aviation Career Pathway

Flight and Aeronautics

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.



Certifications students may earn as a result of completing this pathway: FAA Private Pilot Written test

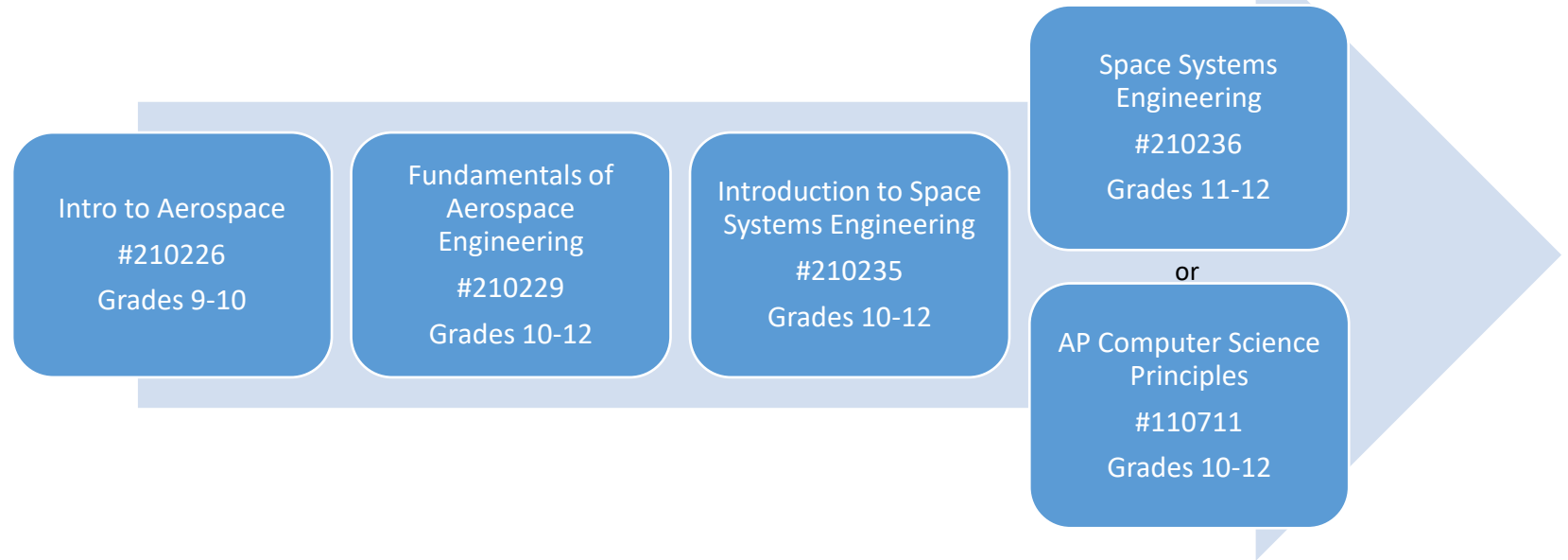
Flight simulators are used in this pathway.

This pathway prepares students for the following careers: Aerospace Engineer, Aerospace Technician, Private Pilot, Commercial Pilot, Crew Chief, Flight Instructor, Commercial Aviator, Military Aviator, Military Navigator

Aeronautics and Aerospace Pathways

Aerospace Engineering

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.



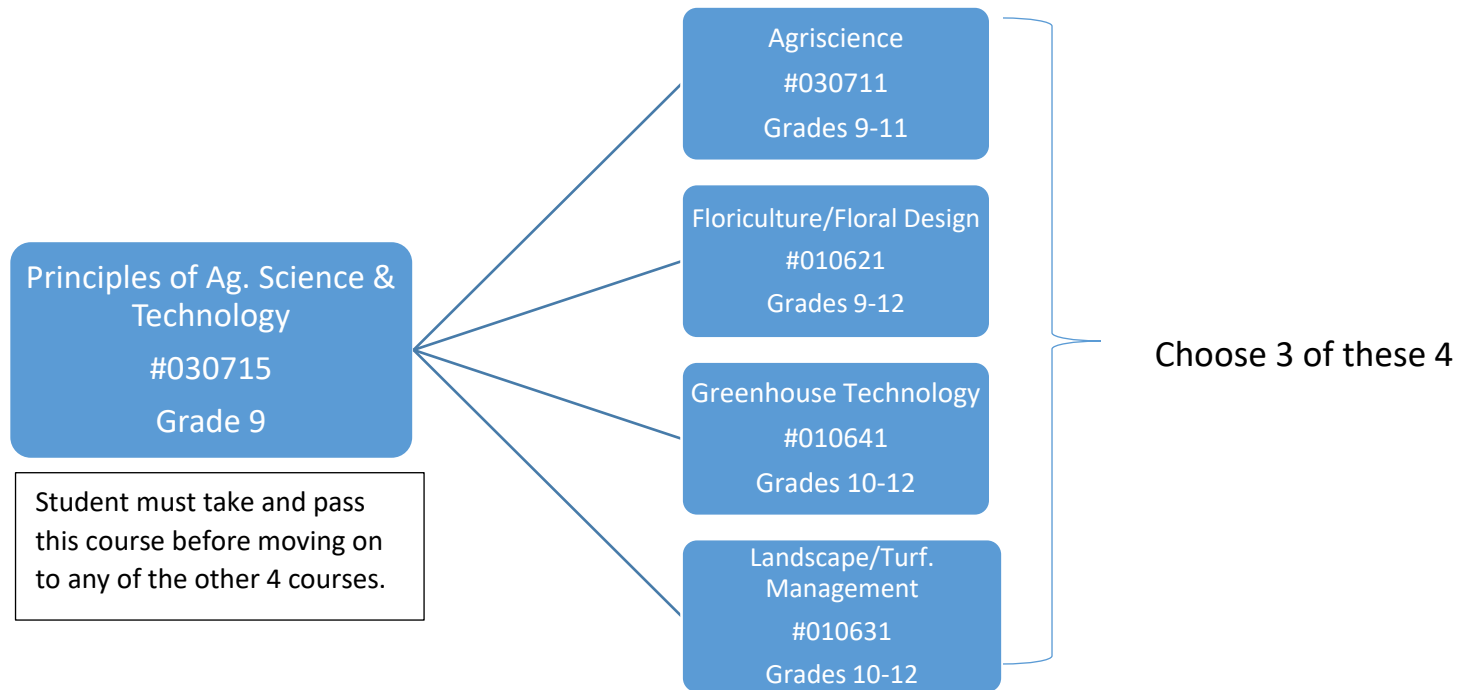
Certifications students may earn as a result of completing this pathway: FAA Private Pilot Written test

Wing Design Competition will be open to any student who has completed Fundamentals of Aeronautical Engineering. Flight simulators are used in this pathway.

This pathway prepares students for the following careers: Astronaut, Aerospace Engineer, Aerospace Technician, Mechanical Engineer, Aircraft Mechanic, Crew Chief, Aircraft Manufacturing Manager, Aircraft Structural Assembler, Quality Control Inspector, Mechanical Design Engineer

Agriculture Education Pathway

Horticulture & Plant Science System



Certifications students may earn as a result of completing this pathway: Horticulture KOSSA

This pathway prepares students for the following careers: Horticulturist, Agronomist, Landscaper, Farmer, Scientist, Landscape Architect, Nursery / Greenhouse, Grower, Botanist

Business Education Pathways

Accounting

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.

Choose 2-3 of these courses:

Accounting and
Finance Foundations
#060122
Grades 10-12

Digital Literacy #
060112 (9-12)

Financial Accounting
#070122
Grades 10-12

Choose 1-2 of these courses:

Business
Management
#060411
Grades 11-12

Business Principles
and Applications
#060111
Grades 9-10

Principles of
Marketing
#080716
Grades 9-10

Certifications students may earn as a result of completing this pathway: Accounting KOSSA

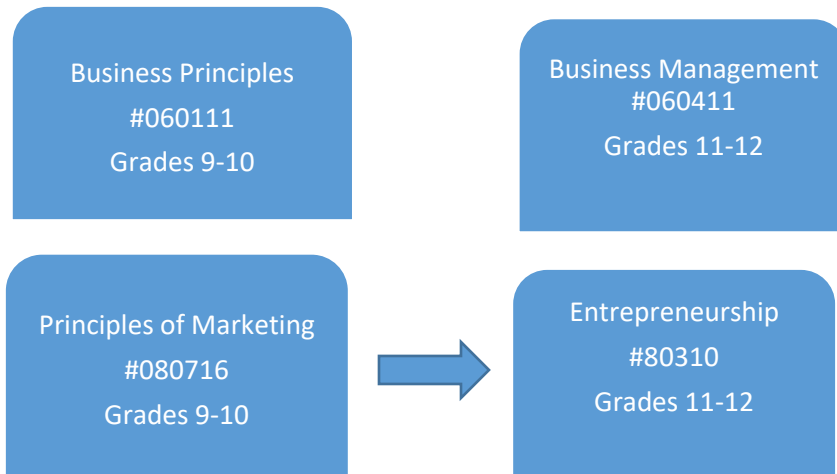
This pathway prepares students for the following careers: Accountant, Forensic Accountant, Planner, Tax Preparer, Auditor, Auditing Clerk, Budget Analyst, Tax Examiner

Business and Marketing Education Pathways

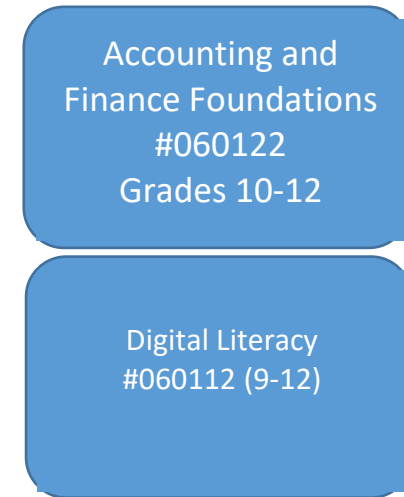
Management and Entrepreneurship

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.

You must take three of these courses:



You must take one of these courses:



Certifications students may earn as a result of completing this pathway: Business Management KOSSA, Assessment of Skills and Knowledge for Business- Fundamental Business Concepts (#ME05), Assessment of Skills and Knowledge for Business- Fundamental Business Concepts (#ME05), Assessment of Skills and Knowledge for Business (ASK) - Concepts of Entrepreneurship/Management (#ME22)

This pathway prepares students for the following careers: Entry Level Manager, Money Manager, Account Manager, Real Estate Agent, Venture Capitalist, Insurance Agent, Association Manager, Quality Controller

Business and Marketing Education Pathways

E-Commerce

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.



Certifications students may earn as a result of completing this pathway: InDesign CS6 or Photoshop CS6, Apple Certified Professional - 3 Exams Required - Pages, Numbers, Keynote

This pathway prepares students for the following careers: Public Relations Specialist, Desktop Publisher, Proofreader, Web Designer, Multimedia Artist

Business and Marketing Education Pathways

Marketing

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.

You must take these two classes:

Principles of Marketing
080716
Grades 9-10



Marketing Advanced
080717
Grades 10-12

Choose two of these classes:

Digital Literacy
#060112
Grades 9-12

Entrepreneurship
#080310
Grades 11-12

Accounting &
Finance Foundations
#060122
Grades 10-12

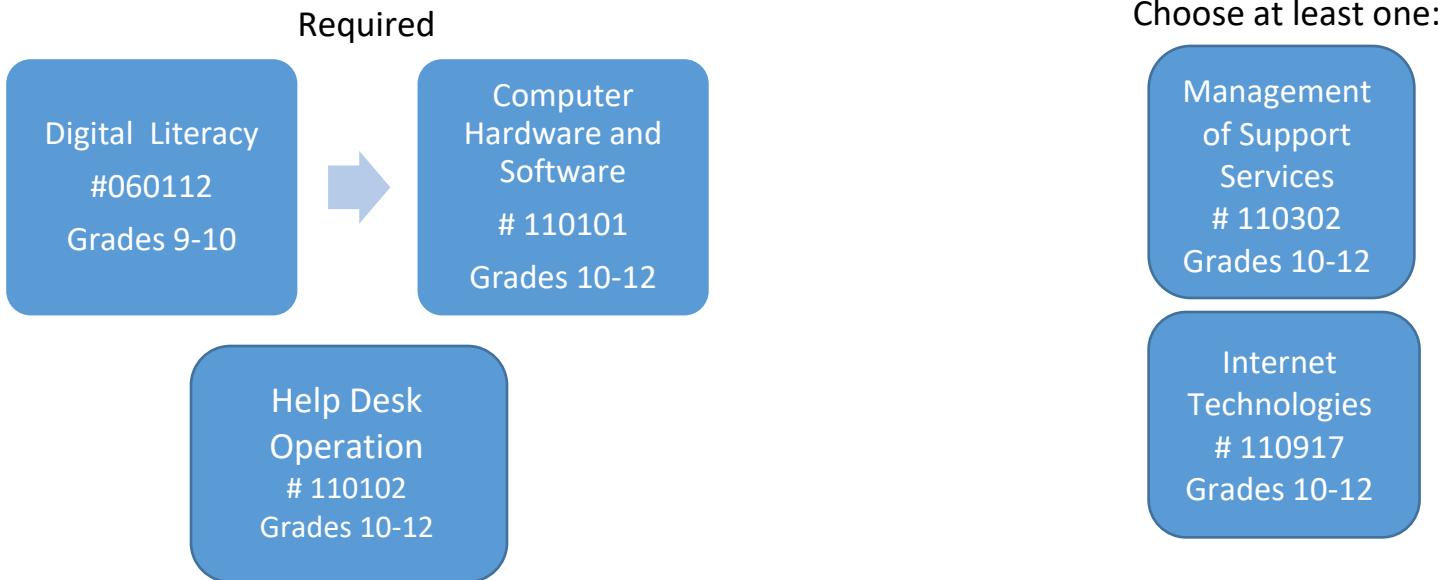
Sports and Event
Marketing
081115
Grades 11-12

Certifications students may earn as a result of completing this pathway: Marketing KOSSA, Assessment of Skills and Knowledge for Business (ASK) - Fundamental Marketing Concepts (#ME06)

This pathway prepares students for the following careers: Marketing Specialist

Computer IT Pathways

Information Support and Services



Certifications students may earn as a result of completing this pathway: Information Support and Services KOSSA

This pathway prepares students for the following careers: Computer Technician, Customer Service Representative, Data Entry Technician, Electronics Technician, Quality Assurance Tester, Technical Support, Help Desk Associate, Technical Writing Clerk

Computer IT Pathways

IT Network Security

Required

Digital Literacy
#060112
Grades 9-10



Computer
Hardware and
Software
110101
Grades 10-12

Required

Intro to
Networking
Concepts
110901
Grades 10-12

Security
Fundamentals
110912
Grades 10-12

Certifications students may earn as a result of completing this pathway: Network Administration, CompTIA - Security+

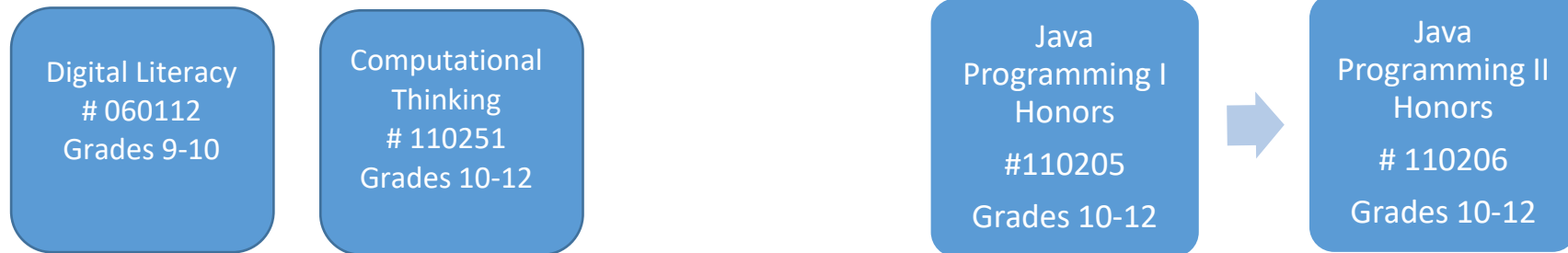
This pathway prepares students for the following careers: Networking Security Administrator, Electronics Security Engineer, Hardware, Security Engineer, System Security Administrator, Quality Assurance System Security Analyst, Security Expert

Computer IT Pathways

Computer Programming

Required

Required



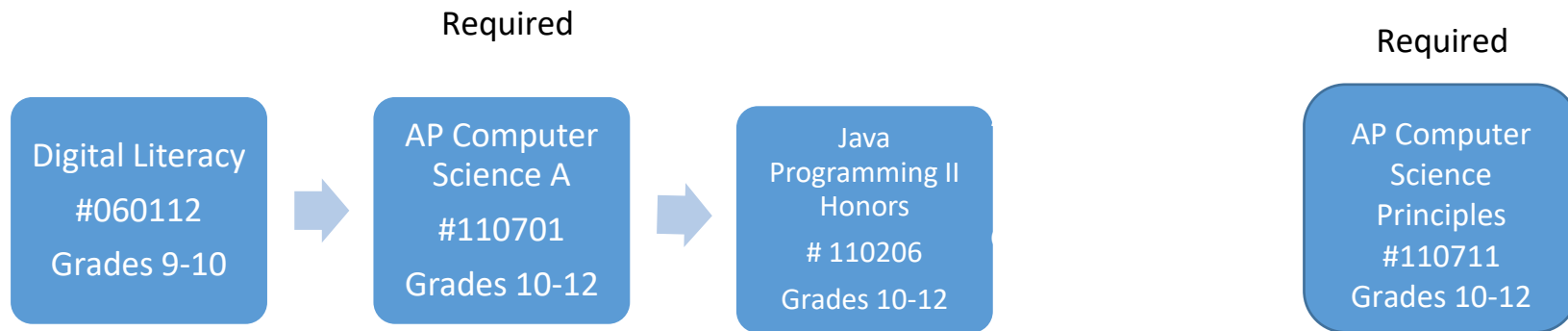
Certifications students may earn as a result of completing this pathway: Computer Programming KOSSA, Java SE 8 Programmer I

This pathway prepares students for the following careers: Computer Programmer, Software Developer, Database Administrator, Computer Hardware Engineer, Computer Systems Analyst, Computer Network Architect, Web Developer, Information Security Analyst, Computer Systems Manager, Information Systems Manager, Project Manager

Computer IT Pathways

Computer Science

Students beginning a new pathway in the 2017-2018 school year must follow the new KDE designed pathways.

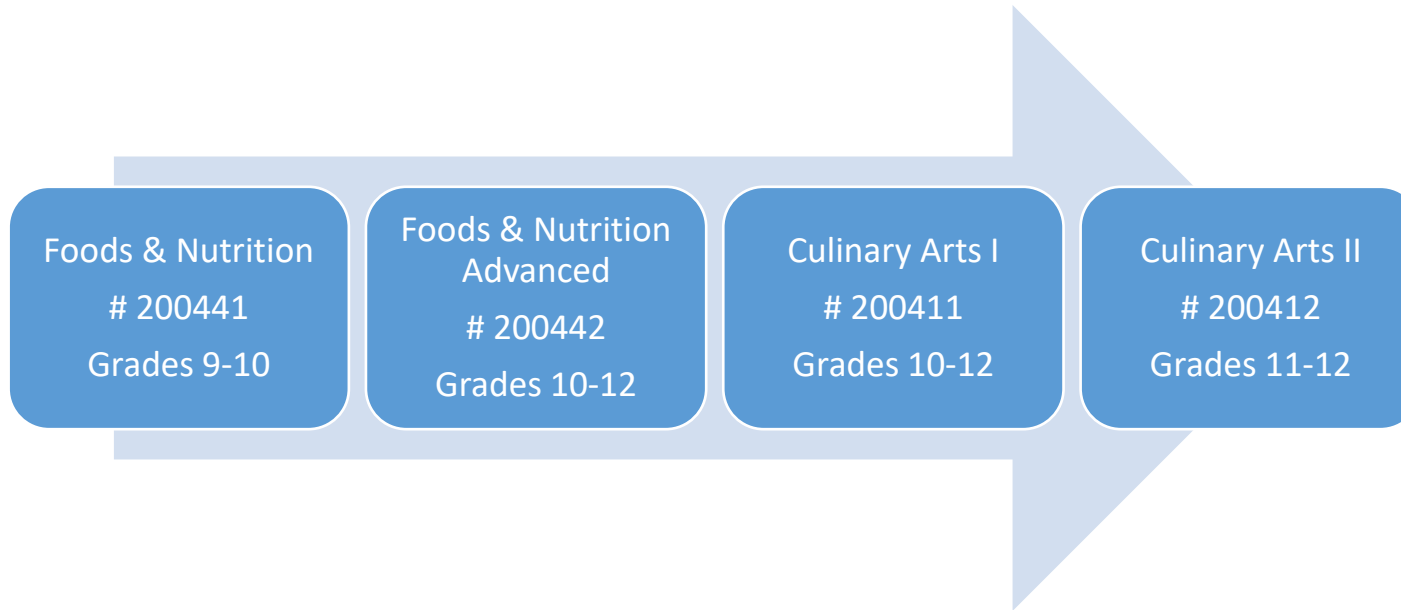


Certifications students may earn as a result of completing this pathway: Computer Programming KOSSA

This pathway prepares students for the following careers: Software Developer, Database Administrator, Computer Hardware Engineer, Computer Systems Analyst, Computer Network Architect, Web Developer, Information Security Analyst, Computer Programmer, Computer Systems Manager, Information Systems Manager, Project Manager

Family and Consumer Science Education Pathways

Culinary and Foods Services



Certifications students may earn as a result of completing this pathway: Culinary and Food Services KOSSA

This pathway prepares students for the following careers: Chef/Cook, Baker, Entrepreneur, Food Inspector, Butcher

Education and Training Pathways

Teaching and Learning

Required

The Learning Community
#331030
Grades 9-12



The Professional Educator
331032
Grades 10-12

The Learner-Centered Classroom
331031
Grades 9-12

Choose at least one:

Collaborative Clinical Experience
331033
Grades 11-12

Principles of Career and Technical Education
331034
Grades 10-12

An AP or Dual Enrollment Course in the intended teaching discipline

Certifications students may earn as a result of completing this pathway: Pre-Professional Assessments and Certification in Education Fundamentals (AAFCS), Praxis I, Educators Rising Micro-credentials

This pathway prepares students for the following careers: Teacher, Administrator, Counselor, Instructional Coach, Curriculum Specialist, Curriculum Writer/Consultant, School Psychologist, Curator, Professor, Policy Advisor, Tutor, Assessment Specialist

Medical Pathway

In order to be eligible for a Medical Internship, students must score an 80% or higher in at least three of the course, including one of the Advanced Placement offerings listed. Please note the prerequisites in the course descriptions.

Microbiology
#302613
Grades 10-12

Anatomy Honors
#302631
Grades 10-12

Genetics
#302661
Grades 11-12

AP Biology I and II
#302646 and #302647
Grades 10-12

AP Chemistry I and II
#304526 and #304531
Grades 11-12

AP Environmental
Science
#304622
Grades 10-12

This pathway prepares students for the following careers: Doctor, Nurse, Pharmacist, Chiropractor, Veterinarian, Pediatrician, Surgeon, Physical Therapist, Nurse Practitioner, and Anesthesiologist