



"A Culture of High Expectations and Excellence!"

2024-25 Career & Technical Education Programs

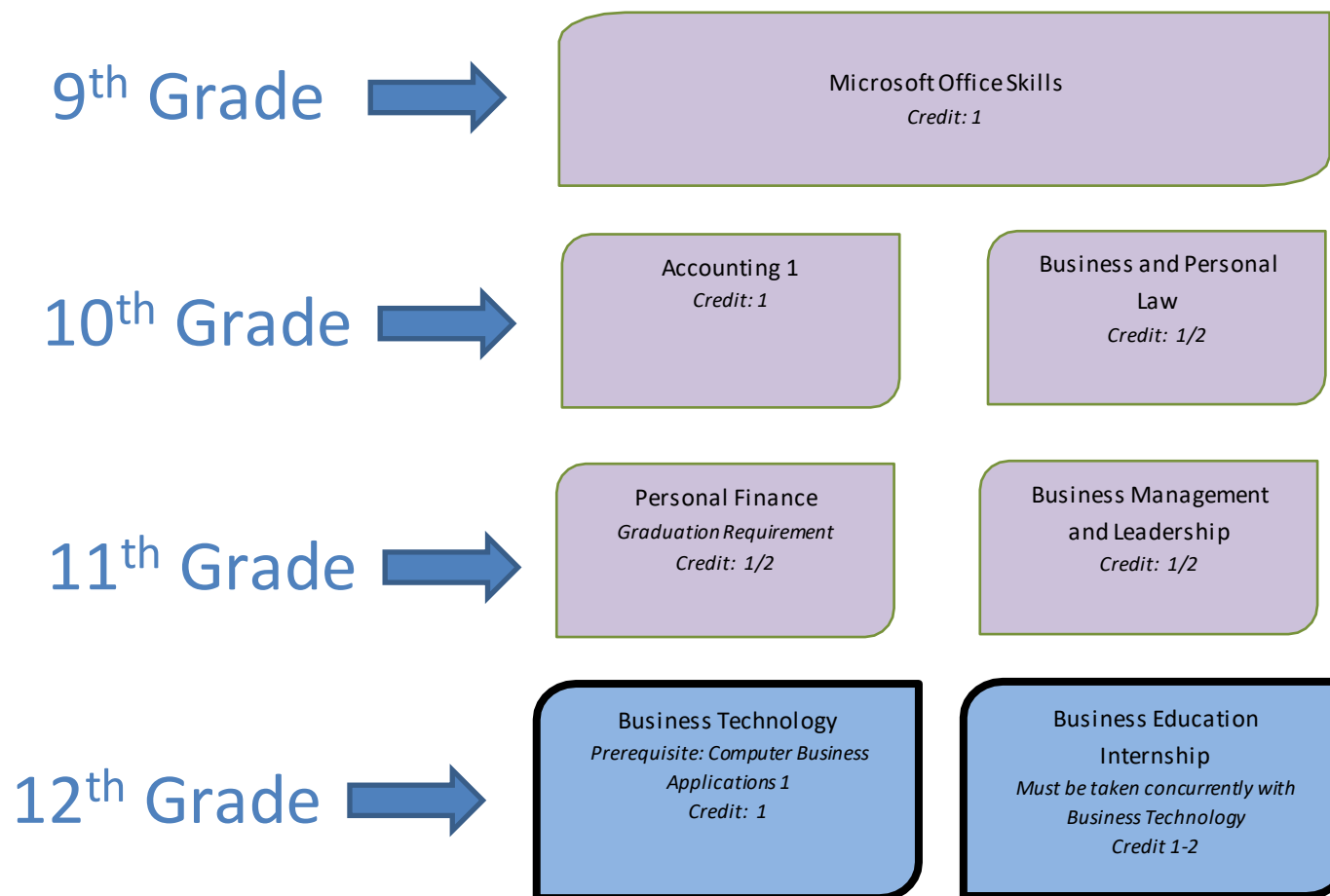


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Business, Management and Technology

Business Management Administration



Other beneficial courses:

- Web Design
- Introduction to Graphic Design and Multimedia
- Accounting 2
- Entrepreneurship
- Technical Reading & Writing

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Business Technology: Business Fundamentals Exam (IRC)
All Courses: Participation in Future Business Leaders of America (CTSO)
Business Education Internship: Work related experience in Business field
Opportunity to earn Career and Technical Education Certificate
Business Technology: CareerSafe Workplace Readiness (Stackable Credential)



Business, Management and Technology Finance

9th Grade →

Microsoft Office Skills
Credit: 1

10th Grade →

Accounting 1
Credit: 1

Business and Personal
Law
Credit: 1/2

11th Grade →

Personal Finance
Graduation Requirement
Credit: 1/2

Business Management
and Leadership
Credit: 1/2

12th Grade →

Accounting 2
Prerequisite: Accounting 1
Credit: 1

Business Education
Internship
Must be taken concurrently with
Accounting 2
Credit 1-2

Other beneficial courses:

- Web Design
- Introduction to Graphic Design and Multimedia
- Entrepreneurship
- Technical Reading & Writing

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Business Technology: Business Fundamentals Exam (IRC)
Accounting 2: Accounting Basics (TSA)
All Courses: Participation in Future Business Leaders of America (CTSO)
Business Education Internship: Work related experience in Business field
Opportunity to earn Career and Technical Education Certificate
Business Technology: CareerSafe Workplace Readiness (Stackable Credential)

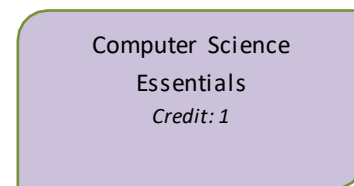


Business, Management and Technology Information Technology

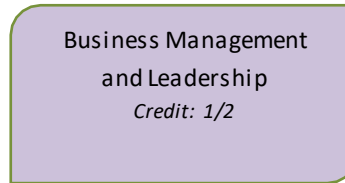
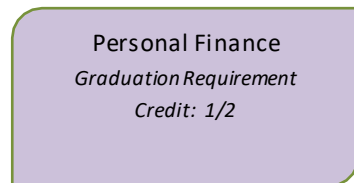
9th Grade →



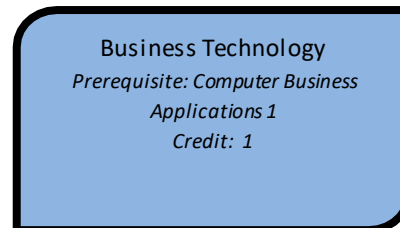
10th Grade →



11th Grade →



12th Grade →



Other beneficial courses:

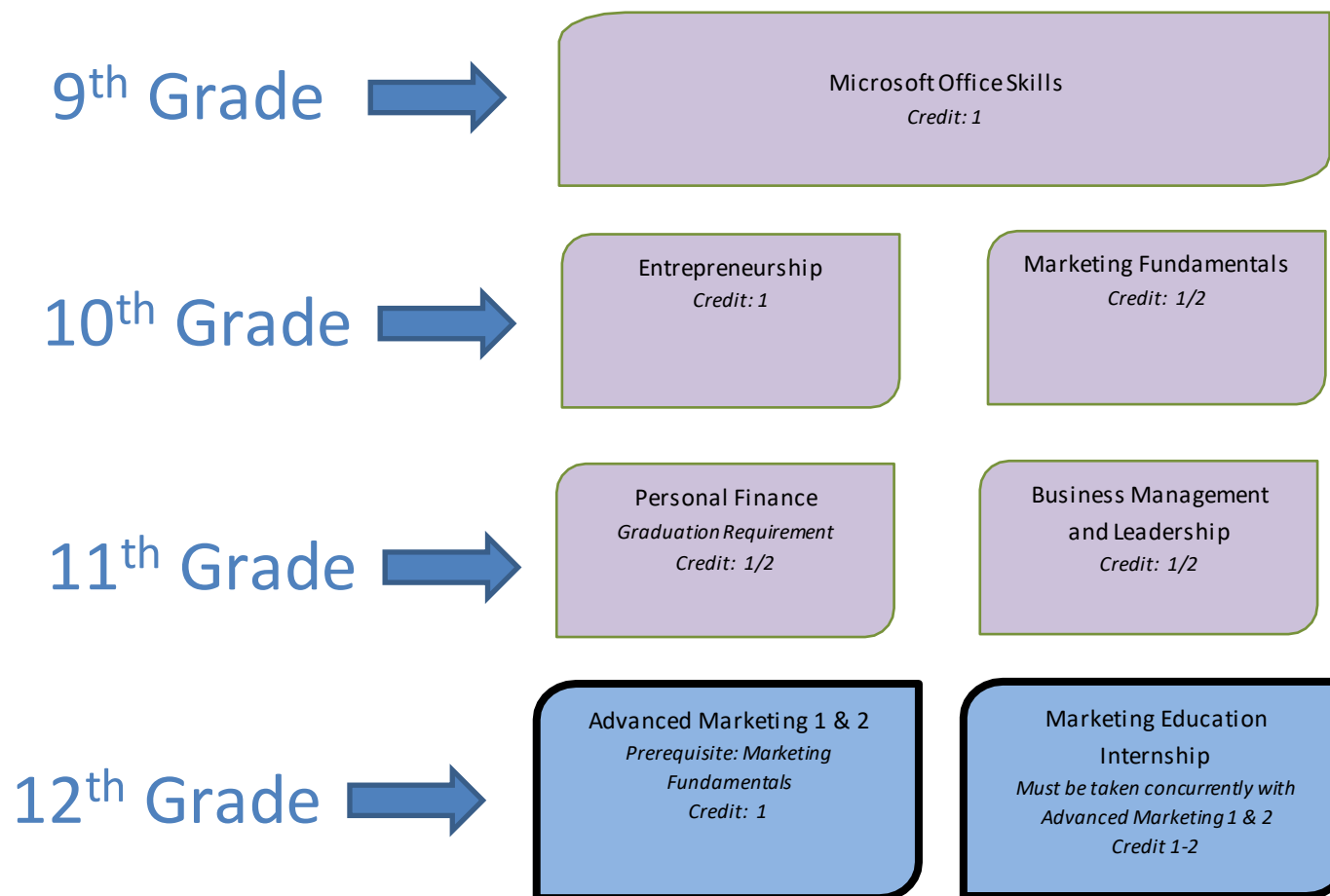
- Business & Personal Law
- Introduction to Graphic Design and Multimedia
- Entrepreneurship
- Computer Science Principles
- Technical Reading & Writing

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Business Technology: Business Fundamentals Exam (IRC)
All Courses: Participation in Future Business Leaders of America (CTSO)
Dual Credit and AP credit available with one or more PLTW courses
Business Education Internship: Work related experience in Business field
Opportunity to earn Career and Technical Education Certificate
Business Technology: CareerSafe Workplace Readiness (Stackable Credential)



Business, Management and Technology

Marketing, Sales, & Services



Other beneficial courses:

- Web Design
- Introduction to Graphic Design and Multimedia
- Technical Reading & Writing
- Business & Personal Law

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Advanced Marketing 1 & 2: ASK Marketing Exam (Industry Recognized Credential)
All Courses: Participation in Distributive Education Club of America (CTSO)
Marketing Education Internship: Work related experience in Marketing field
Opportunity to earn Career and Technical Education Certificate
Advanced marketing 1 & 2: CareerSafe Workplace Readiness (Stackable Credential)



Human Services Education & Training

9th Grade →

Microsoft Office Skills
Credit: 1

10th Grade →

Technical Reading & Writing
Prerequisite: Microsoft Office Skills
Credit: 1/2

Nutrition & Wellness
Credit: 1/2

11th Grade →

Child Development, Care, & Guidance
Credit: 1/2

Advanced Child & Human Development
Prerequisite: Child Development, Care & Guidance
Credit: 1/2

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

Exploring the Teaching Profession
Prerequisite: Advanced Child & Human Development
Credit: 1

Teaching Profession Internship
Must be taken concurrently with Exploring the Teaching Profession
Credit 1-2

Other beneficial courses:

- General Psychology
- Experimental Psychology
- Family Living & Parenthood

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Exploring the Teaching Profession: AAFCS Education Fundamentals Exam (IRC)
All Courses: Participation in Educator's Rising (CTSO)
Dual Credit Available from University of Missouri St. Louis
Teaching Profession Internship: Work related experience in Education field
Opportunity to earn Career and Technical Education Certificate
Exploring the Teaching Profession: CareerSafe Workplace Readiness (Stackable Credential)
Exploring the Teaching Profession: Frontline Substitute Teacher Certification (IRC)



Human Services

Restaurants, Food & Beverage

9th Grade →

Microsoft Office Skills
Credit: 1

10th Grade →

Nutrition & Wellness
Credit: 1/2

Culinary Arts 1
Credit: ½
Prerequisite: Nutrition & Wellness

11th Grade →

Tastes of Culture
Prerequisite: Culinary Arts 1
Credit: 1/2

Culinary Arts 2
Credit: 1
Prerequisite: Culinary Arts 1

Other beneficial courses:

- Foreign Language Sequence
- Technical Reading & Writing

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

Culinary Arts 3
Credit: 1
Prerequisite: Culinary Arts 2

Culinary Arts Internship
Must be taken concurrently with Culinary Arts 3
Credit 1-2

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)
Culinary Arts 1/3: ServSafe Food Handler Certification/ServSafe Food Manager Certification (Stackable Credential)
Culinary Arts 2: AAFCS Culinary Arts Exam (Industry Recognized Credential)
All Courses: Participation in Family, Career and Community Leaders of America (CTSO)
Culinary Arts 2: Dual Credit available from Missouri State University
Culinary Arts Internship: Work related experience in Restaurant/Hospitality field
Opportunity to earn Career and Technical Education Certificate
Culinary Arts 3: CareerSafe Workplace Readiness (Stackable Credential)



Human Services Fashion

9th Grade →

Microsoft Office Skills
Credit: 1

Apparel & Textiles
Credit: 1/2

10th Grade →

Entrepreneurship
Credit: 1

Advanced Apparel &
Textiles
*Prerequisite: Apparel & Textiles
Credit: 1/2*

11th Grade →

Fashion Merchandising
Credit: 1/2

Marketing Fundamentals
Credit: 1/2

Personal Finance
*Graduation Requirement
Credit: 1/2*

12th Grade →

Advanced Marketing 1 & 2
*Prerequisite: Marketing
Fundamentals
Credit: 1*

Marketing Education
Internship
*Must be taken concurrently with
Advanced Marketing 1 & 2
Credit 1-2*

Other beneficial courses:

- Art & Design
- Drawing 1
- Drawing 2

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)
Fashion Merchandising: AAFCS Fashion Exam (Industry Recognized Credential)
FACS Courses: Participation in Family, Career and Community Leaders of America (CTSO)
Advanced Marketing 1 & 2: ASK Marketing Exam (Industry Recognized Credential)
Opportunity to earn Career and Technical Education Certificate
Marketing Courses: Participation in Distributive Education Club of America (CTSO)
Advanced Marketing 1&2: CareerSafe Workplace Readiness (Stackable Credential)



Human Services

Counseling and Mental Health Services

9th Grade →

Microsoft Office Skills
Credit: 1

Other beneficial courses:

- Women's Study
- AP Human Geography

10th Grade →

Child Development, Care,
& Guidance
Credit: 1/2

Advanced Child & Human
Development
Prerequisite: Child Development,
Care & Guidance
Credit: 1/2

11th Grade →

General Psychology
Credit: 1/2

Experimental Psychology
Prerequisite: General
Psychology
Credit: 1/2

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

AP Psychology
Credit: 1

Health Occupations 1 and
2/CAPS
Credit 4/4

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Dual Credit Available from University of Missouri St. Louis
Health Occupations 1 and 2/CAPS: Basic Life Saving & OSHA 10 Healthcare Certifications (IRC)
Opportunities: Participation in Family, Career and Community Leaders of America (CTSO) or Health Occupation Students of America (CTSO)
CAPS: CareerSafe Workplace Readiness, CPR, OSHA 10 (Stackable Credentials)
Health Occupations 1 and 2/CAPS: Work related experience in Healthcare facility
Opportunity to earn Career and Technical Education Certificate



Human Services

Government & Public Administration

9th Grade →

Microsoft Office Skills
Credit: 1

Other beneficial courses:

- Women's Study
- Speech 1 and 2
- AP US History

10th Grade →

Business and Personal
Law
Credit: 1/2

Sophomore Exploration
Program (North Technical
HS)
Credit: 1 ½-3

11th Grade →

Justice and Social Issues
Credit: 1/2

Law Enforcement or
Firefighting EMT Program
(North Technical HS)
Credit: 3

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

AP Comparative
Government
Credit: 1/2

Law Enforcement or
Firefighting EMT Program
(North Technical HS)
Credit: 3

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)
Law Enforcement: Missouri Law Enforcement Skills and Knowledge Cert, Emergency Dispatch Certification
Opportunities: Participation in Skills USA at North Technical High School (CTSO)
AP Comparative Government: Opportunity to earn AP credit
Firefighting/EMT: Fire 1 and Fire 2 Certifications, National First Responder, EMT Basic Certification
North Technical High School: Work related experience in Law Enforcement or Firefighting EMT Program
Opportunity to earn Career and Technical Education Certificate



Health Services

Health Science

9th Grade →

Principles of Biomedical Sciences
Credit: 1

Microsoft Office Skills
Credit: 1

Other beneficial courses:

- Anatomy & Physiology
- Nutrition & Wellness

10th Grade →

Human Body Systems
Credit: 1

Technical Reading & Writing
Prerequisite: Microsoft Office Skills
Credit: 1/2

11th Grade →

Medical Interventions
Credit: 1

CAPS: Medicine and Bioscience
Credit: 4
Can only be taken once

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

Health Occupations 1 & 2
Credit: 4

CAPS: Medicine and Bioscience
Credit: 4
Can only be taken once

Biomedical Innovations
Credit: 1

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)
Health Occupations 1 and 2/CAPS: Basic Life Saving & OSHA 10 Healthcare Certifications (IRC)
PLTW Courses/CAPS/Health Occupations: Participation in Health Occupation Students of America (CTSO)
Dual Credit Available through PLTW courses
Health Occupations 1 & 2/CAPS: Work related experiences in Healthcare facilities
Opportunity to earn Career and Technical Education Certificate
CAPS: CareerSafe Workplace Readiness (Stackable Credential)



Science, Technology, Engineering, & Mathematics

Computer Science

9th Grade →

Computer Science Essentials
Credit: 1

Microsoft Office Skills
Credit: 1

10th Grade →

Computer Science Principles
Credit: 1

Technical Reading & Writing
Prerequisite: Microsoft Office Skills
Credit: 1/2

11th Grade →

Cybersecurity
Credit: 1

CAPS: Engineering and Construction
Credit: 2
Can only be taken once

Personal Finance
Graduation Requirement
Credit: 1/2

12th Grade →

Computer Science A
Credit: 4

Engineering Design and Development
Credit: 1

CAPS: Engineering and Construction
Credit: 2
Can only be taken once

Other beneficial courses:

- Anatomy & Physiology
- Nutrition & Wellness
- Technical Reading & Writing

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)
Computer Science Principles and Computer Science A: AP Credit available
All Courses: Participation in Technology Student Association (CTSO)
Dual Credit Available
CAPS: CareerSafe Workplace Readiness (Stackable Credential)
Opportunity to earn Career and Technical Education Certificate



Science, Technology, Engineering, & Mathematics

Engineering & Technology

9th Grade



Engineering Essentials

Credit: 1

Microsoft Office Skills

Credit: 1

10th Grade



Principles of Engineering

Prerequisite: Engineering Essentials

Credit: 1

Technical Reading &
Writing

Prerequisite: Microsoft Office Skills

Credit: 1/2

11th Grade



PLTW Elective Course
(depends on pathway)

Prerequisite: Principles of Engineering

Credit: 1 per course

PLTW Elective Course
(depends on pathway)

Prerequisite: Principles of Engineering

Credit: 1 per course

Personal Finance

Graduation Requirement

Credit: 1/2

12th Grade



Engineering Design and
Development

Credit: 1

CAPS: Engineering and
Construction

Credit: 2

Other beneficial courses:

- Drone Pilot Certification
- Woods and Construction
- Adv. Woods
- Metal Technology

Opportunities Available
Microsoft Office Skills: Microsoft Office Specialist (IRC)
Computer Applications 2: Microsoft PowerPoint and Excel Certifications
Drone Pilot Certification: Drone License Certification (IRC)
All Courses: Participation in Technology Student Association (CTSO)
PLTW Courses: Dual Credit Available
CAPS: CareerSafe Workplace Readiness (Stackable Credential)
Opportunity to earn Career and Technical Education Certificate



Science, Technology, Engineering, & Mathematics

Architecture & Construction

9th Grade



Engineering Essentials

Credit: 1

Microsoft Office Skills

Credit: 1

10th Grade



Principles of Engineering

*Prerequisite: Engineering Essentials
Credit: 1*

Technical Reading &
Writing

*Prerequisite: Microsoft Office
Skills
Credit: 1/2*

11th Grade



Civil Engineering &
Architecture

Credit: 1

CAPS: Engineering and
Construction

Credit: 2

Personal Finance
*Graduation Requirement
Credit: 1/2*

12th Grade



Engineering Design and
Development

Credit: 1

Construction Trades Program
(North Technical HS)

Credit: 3

Other beneficial courses:

- Drone Pilot Certification
- Woods and Construction
- Adv. Woods
- Metal Technology

Opportunities Available

Microsoft Office Skills: Microsoft Office Specialist (IRC)

Drone Pilot Certification: Drone License Certification (IRC)

Construction Trades Program: Home Builders Institute Certification and OSHA 10 Certification

All Courses: Participation in Technology Student Association (CTSO) or Skills USA (CTSO)

PLTW Courses: Dual Credit Available

CAPS and North Technical HS: Work related experiences in Architecture and Construction Industries

Opportunity to earn Career and Technical Education Certificate



North Technical High School CTE Programs
Click on each link for more information

<u>Sophomore Career Exploration</u>	<u>Auto Collision Repair</u>	<u>Automotive Technology</u>	<u>Carpentry</u>
<u>CISCO Networking Academy</u>	<u>Construction Innovations</u>	<u>Construction Trades</u>	<u>Cosmetology</u>
<u>Dental Sciences</u>	<u>Diesel Technology</u>	<u>Electrical Trades</u>	<u>Firefighting & EMT</u>
<u>Graphic Design</u>	<u>Heating, Ventilation & Air Conditioning</u>	<u>Law Enforcement</u>	<u>Multimedia</u>
<u>Precision Machining</u>	<u>Veterinary Assistant</u>	<u>Welding</u>	

