SEQUENCE OF COURSES

DIGITAL TECHNOLOGY

INVESTING IN THE FUTURE

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.

APPROVED CLUSTER COURSES

NETWORKING AND CYBERSECURITY PATHWAY	PROGRAMMING, WEB, AND SOFTWARE PATHWAY
10003 Introduction to Digital Technology	10003 Introduction to Digital Technology
10013 Computer Science Essentials	10013 Computer Science Essentials
10015 Computer Science Principles	10015 Computer Science Principles
10016 Foundations of Cybersecurity	10019 AP Computer Science Principles
10019 AP Computer Science Principles	10052 Computer Programming I
10101 Network Technology	10153 Software Solutions
10108 Introduction to Artificial Intelligence	10057 AP Computer Science A
10157 AP Computer Science A	10201 Web Development
10251 Computer Hardware	10202 Advanced Web Development
14157 Introduction to Health Informatics	10251 Computer Hardware
17106 Electronics	21009 Robotics
10023 AP Networking	
10024 AP Cybersecurity	

course code correction

MIDDLE SCHOOL COURSES

- 10001 Grades 5-8 Computer Applications
- 10604 Grades 5-8 Computer Science
- 22100 Middle School Exploring CTE

FOUNDATIONAL COURSES

- 22151 Career Exploration
- 22152 Employability
- 10004 Workplace Technology
- 22101 Leadership & Service
- 19262 Personal Finance

CAPSTONE/WORK-BASED LEARNING

- 22104 Service Learning Experience
- 80018 Youth Internship Experience
- 80019 Senior Experience
- 80020 Youth Apprenticeship Experience
- 80026 Entrepreneurship Experience

SUPPORTING CTE COURSES

- 10005 Busines… …mputer Applicati…
- 12061 Entrepreneur… …ills
- 13001 Introduction to Ma… …uring
- 21001 Introduction … …gineer…
- 21022 Compu… …tegrated Manufac… …g
- 21050 Explo… …ng STEM in CTE

CTE CONCENTRATORS

Complete any two approved cluster courses while in high school. Students may be concentrators in multiple clusters.

ADVANCED CAREER ENDORSEMENT

- Two credits of approved cluster courses from the same cluster and/or capstone courses.
- Earn an Industry Recognized Credential.
- Complete other Graduation Requirements.

Two credits of approved cluster courses from the same cluster including foundational, capstone, and/or approved cluster specific dual credit.

INDUSTRY RECOGNIZED CREDENTIALS

Visit doe.sd.gov/cte/industry.aspx for a full list of industry recognized credentials in this career cluster.

DUAL CREDIT COURSES

Visit the resources section on the ourdakotadreams.com dual credit page.

POST-SECONDARY OPTIONS

Visit sdmylife.com for more information about potential careers in this area and explore colleges and majors to further your education.

These changes were made on each cover page.

SEQUENCE OF COURSES

ENERGY AND NATURAL RESOURCES

CULTIVATING RESOURCES



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APPROVED CLUSTER COURSES

NATURAL RESOURCES AND ENVIRONMENTAL SERVICES PATHWAY
18504 Introduction to Natural Resources
18501 Wildlife & Fisheries
18502 Natural Resource Management
18508 Issues in Environmental Science
18001 Intro to Ag, Food, and Natural Resources
18203 Ag Leadership and Communication
18248 Independent Supervised Agricultural Experience
15151 Introduction to Fire Science

course added

ENERGY PATHWAY
20101 Introduction to Energy/Power
18308 Ag. Biotechnology
21060 Energy Transmission and Distribution
18502 Advanced Natural Resources
18504 Introduction to Natural Resources
17106 Electronics
18001 Intro to Ag, Food, and Natural Resources
18203 Ag Leadership and Communication
18248 Independent Supervised Agricultural Experience

MIDDLE SCHOOL COURSES

- 18000 Grades 5-8 Agriculture, Food, and Natural Resources
- 22100 Middle School Exploring CTE

FOUNDATIONAL COURSES

- 22151 Career Exploration
- 22152 Employability
- 10004 Workplace Technology
- 22101 Leadership & Service
- 19262 Personal Finance

CAPSTONE/WORK-BASED LEARNING

- 22104 Service Learning Experience
- 80018 Youth Internship Experience
- 80019 Senior Experience
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- Complete other Graduation Requirements.

Two credits of approved cluster courses from the same cluster including foundational, capstone, and/or approved cluster specific dual credit.

SUPPORTING CTE COURSES

- 12061 Entrepreneurial
- 15001 Introduction to Law, Safety, Security & Corrections I
- 15054 Introduction aw, Public Sa Corrections II
- 18051 Fundamental Plant Science

INDUSTRY RECOGNIZED CREDENTIALS

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Cross Cluster Standards also connected with the Energy and Natural Resources Cluster	
Primary Cluster	**Course**
Agriculture	Ag Biotechnology - 18308
Agriculture	Introduction to Ag, Food, and Natural Resources – 18001
Agriculture	Independent Supervised Agriculture Experience – 18248
Manufacturing	Electronics – 17106
Public Service and Safety	Introduction to Fire Science - 15151

Cluster

Management and Entrepreneurship

The Management & Entrepreneurship Career Cluster focuses on developing the leadership, analytical, and organizational skills needed for careers in business. It prepares learners to manage people, projects, and processes. Careers in this area include roles in operations, project coordination, workforce management, and business development. By also emphasizing entrepreneurial thinking, this cluster cultivates future business leadership skills and entrepreneurial spirit in youth, empowering them to shape the future of business.

Introduction to Business - 12051	
IB 1: Identify skills needed to be successful in the global economic environment.	
IB 1.1	Explain key economic concepts such as scarcity, supply and demand, economic resources, indicators, systems, and global trade, and how they influence business decisions and economic activity.
IB 1.2	Identify the impact of globalization on business operations and economic systems.
IB 1.3	Explain the structure of the securities market.
IB 1.4	Describe the role of the Federal Reserve and how interest rates affect the economy.
IB 2: Compare the different forms of business organizations.	
IB 2.1	Compare and contrast different forms of business organizations.
IB 2.2	Identify characteristics of sole proprietorships, partnerships, corporations, cooperatives, nonprofits, and LLCs.
IB 2.3	Explain the advantages and disadvantages of each type of business organization.
IB 3: Explore how marketing, finance, human resources, technology, and management are used in business operations.	
~~IB 3.1~~	~~Identify the accounting elements comprising a financial statement and how they are used to describe a business operation.~~
~~IB 3.2~~	~~Describe the tools used to evaluate a business's current financial condition and develop financial plans.~~
IB 3.41	Explain the financial processes needed to start and operate a business.
IB 3.~~5~~ 2	Summarize the human resource procedures and principles utilized in operating a business.
IB 3.~~6~~ 3	Compare and contrast the factors in various management styles.
IB 4: Evaluate the financial management concepts involved in operating a business.	

IB 4.1	Identify the accounting elements comprising a financial statement and how they are used to describe a business operation.
IB 4.2	Describe the tools used to evaluate a business's current financial condition and develop financial plans.
IB 4.3	Identify banking services, including credit, loans, savings, and investment options available to manage business operations.
IB 5: Utilize career-planning concepts, tools, and strategies to explore, obtain, and/or develop a career in business disciplines.	
IB 5.1	Investigate a variety of careers in business, management, marketing, finance, and entrepreneurship, including required skills, education, and typical career paths.
IB 5.2	Explore the various career paths that exist within the business industry.
IB 5.3	Evaluate the traits, mindsets, and behaviors common among successful business professionals/entrepreneurs, and assess how these can be developed.
IB 5.4	Analyze how ethical behavior impacts personal and professional success in business.