Business Communications	BF2711/BF2712

Business Communications helps students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real world application.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 10-12
STATE COURSE CODE: 12009		**COURSE FEE:** $0

Computer Science Essentials 1	IT2611/IT2612

Students develop an understanding of computer science concepts and use computational thinking skills to solve problems through a variety of programming languages and platforms. Students also develop skills in collaboration and teamwork through the use of work models such as pair programming. This course provides a rich technical foundation for continued study.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

COREQUISITE: Computer Science Essentials 2

CREDIT: 0.5	**TYPE**: Regular	**GRADE**: 10-12
STATE COURSE CODE: 41010		**COURSE FEE:** $0

Computer Science Essentials 2	IT2621/IT2621

Students develop an understanding of computer science concepts and use computational thinking skills to solve problems through a variety of programming languages and platforms. Students also develop skills in collaboration and teamwork through the use of work models such as pair programming. This course provides a rich technical foundation for continued study.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

COREQUISITE: Computer Science Essentials 1

CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 10-12
STATE COURSE CODE: 41010		**COURSE FEE:** $0

Cybersecurity 1	IT2511/IT2512

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

PREREQUISITE: Computer Science Essentials 1 & 2
COREQUISITE: Digital Electronics 1

CREDIT: 0.5	TYPE: Elective	GRADE: 10-12
STATE COURSE CODE: 41036		COURSE FEE: $0

Digital Electronics 1	SM2711/SM2712

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

PREREQUISITE: Computer Science Essentials 1 & 2
COREQUISITE: Cybersecurity 1

CREDIT: 0.5	TYPE: Elective	GRADE: 10-12
STATE COURSE CODE: 21008		COURSE FEE: $0

Computer Programming - Game Design	IT3411/IT3412

Computer Programming - Game Design teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students use what they learn in this course to build simple console-based games.

PREREQUISITE: Computer Science Essentials 1 & 2
COREQUISITE: Web Page Design 1

CREDIT: 0.5	TYPE: Elective	GRADE: 10-12
STATE COURSE CODE: 101065		COURSE FEE: $0

Web Page Design 1	IT2111/IT2112

This course offers students the ability to create web sites, and be exposed to proper web site design and management techniques. Students will learn the proper procedures and create Web pages using Dreamweaver CSS and HTML for coursework, professional purposes, and personal use.

PREREQUISITE: Computer Science Essentials 1 & 2
COREQUISITE: Computer Programming Game Design

CREDIT: 0.5	TYPE: Elective	GRADE: 10-12

STATE COURSE CODE: 101065		COURSE FEE: $0
AP Computer Science A 1 & 2		**IT3031 & IT3032**

Following the College Board's suggested curriculum designed to mirror college-level computer science courses, AP Computer Science uses Java to provide students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. This course covers aspects of computer science such as programming methodology, discrete mathematics, static and dynamic memory allocations, algorithms, data structures, and best practices. Students are encouraged to take the Advanced Placement Computer Science exam. There is a cost associated with the AP Exam; however, the AP Exam is not required.

COREQUISITE: Project Management - Computer Programming and Software Development; Students must take Computer Science A 1 (fall) and Computer Science A 2 (spring)

CREDIT: 1.0	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 10157		COURSE FEE: $0
Cybersecurity 2		**IT2521/IT2522**

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1
COREQUISITE: Networking Fundamentals

CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 41036		COURSE FEE: $0
Networking Fundamentals (IT 140)		**IT2311/IT2312**

Networking Fundamentals (IT 140) is an online college course provided to USD 497 juniors and seniors by Johnson County Community College (JCCC) at the Lawrence College & Career Center. Students will receive 3 hours of college credit through JCCC. Students who choose to take the course will need to also apply for admission to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.
This course serves as the first module of four that are designed to prepare students to complete the Cisco Certified Network Associate (CCNA) Certification. The course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the CCNA curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1
COREQUISITE: Cybersecurity 2

CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 10101	DUAL	COURSE FEE: $0

HTML & CSS (WEB 110)	IT2121/IT2122

HTML & CSS (WEB 110) is an online college course provided to USD 497 juniors and seniors by Johnson County Community College (JCCC) at the Lawrence College & Career Center. Students will receive 1 hour of college credit through JCCC. Students who choose to take the course will need to also apply for admission to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.
This course will cover the essential skills needed to create responsive websites, using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Students will be introduced to the concepts, foundations, syntax and structure of HTML and CSS. Additional topics include the use of File Transfer Protocol (FTP) to publish websites and validation to web standards established by the World Wide Web Consortium (W3C) and other organizations.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1
COREQUISITE: Project Management - Web and Digital Communications

CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 10201	DUAL	COURSE FEE: $0

Intro to Game Development (GAME 104)	IT3421/IT3422

Intro to Game Development (GAME 104) is an online college course provided to USD 497 juniors and seniors by Johnson County Community College (JCCC) at the Lawrence College & Career Center. Students will receive 1 hour of college credit through JCCC. Students who choose to take the course will need to also apply for admission to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.This course covers the basics of game design and production. Topics include the fundamentals of managing game development, development of a plan for a game, the game production process, the history and business of games, and the various job roles in the industry.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1
COREQUISITE: Project Management - Web and Digital Communications

CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 101065	DUAL	COURSE FEE: $0

Project Management - Web and Digital Communications	IT3711/IT3712

This course gives students the opportunity to complete an internship or work cooperatively with other students to apply what they learned in Computer Science Essentials and Cybersecurity, Web Page Design, Computer Programming - Game Design or Digital Electronics. The course provides a work-based or project-based curriculum for the student to solve real world problems.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1

COREQUISITE: Intro to Game Development (GAME 104) or HTML & CSS (WEB 110)		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 11-12
STATE COURSE CODE: 31096		**COURSE FEE:** $0

Programming Fundamentals (CS134)	**IT2811/IT2812**

Programming Fundamentals (CS134) is an online college course provided to USD 497 juniors and seniors by Johnson County Community College (JCCC) at the Lawrence College & Career Center. Students will receive 4 hour of college credit through JCCC. Students who choose to take the course will need to also apply for admission to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.
In this introductory course, students will create interactive computer applications that perform tasks and solve problems. Students will design, develop and test object-oriented programs that utilize fundamental logic, problem-solving techniques and key programming concepts.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1 **COREQUISITE:** Project Management - Programming and Software Development		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 11-12
STATE COURSE CODE: 10156	**DUAL**	**COURSE FEE:** $0

Project Management - Programming and Software Development	**IT2811/IT2812**

This course gives students the opportunity to complete an internship or work cooperatively with other students to apply what they learned in Computer Science Essentials and Cybersecurity, Web Page Design, Computer Programming - Game Design or Digital Electronics. The course provides a work-based or project-based curriculum for the student to solve real world problems.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.

PREREQUISITE: Computer Science Essentials 1 **COREQUISITE:** Programming Fundamentals (CS134) or AP Computer Science A 1 & 2		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 10-12
STATE COURSE CODE: 31098		**COURSE FEE:** $0

CompTIA A+ Essential (ELEC 186)	**IT2221**

Comp TIA A+ Essentials (ELEC 186) is a college course provided to USD 497 juniors and seniors by Johnson County Community College (JCCC) at the Lawrence College & Career Center. Students will receive 3 hours of college credit through JCCC. Students who choose to take the course will need to also apply to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.
Students will gain the knowledge required to assemble components based on customer requirements, and to install, configure and maintain devices for end users. This course also covers the basics of networking and security/forensics, proper and safe diagnosis, and how to resolve and document common hardware issues while applying troubleshooting skills.

COURSE NOTE: This course is taught at Lawrence High School and Lawrence College & Career Center. Transportation is provided from Lawrence High School.		
PREREQUISITE: Computer Science Essentials 1 **COREQUISITES:** Project Management - Computer Support		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 11-12
STATE COURSE CODE: 10254	**DUAL**	**COURSE FEE:** $0
CompTIA A+ Practical Applications (IT 120)		**IT2222**

Comp TIA A+ Practical Applications (IT 120) is a college course provided to USD 497 juniors and seniors by Johnson County Community College (JJCCC) at the Lawrence College & Career Center. Students will receive 3 hours of college credit through JCCC. Students who choose to take the course will need to also apply to JCCC and enroll in the course through JCCC. Counselors and college representatives will assist in this process. There is no tuition cost and books are provided.
Students will gain the knowledge required to maintain software for end users. This course will also cover the basics of networking as well as networking security/forensics. Students will apply troubleshooting skills to properly and safely diagnose, resolve and document common software issues. Students will also apply appropriate support and soft skills, understand the basics of virtualization and examine desktop imaging and deployment.

COURSE NOTE: This course is taught at Lawrence High School and Lawrence College & Career Center. Transportation is provided from Lawrence High School.		
PREREQUISITE: Computer Science Essentials 1 **COREQUISITES:** Project Management - Computer Support		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 11-12
STATE COURSE CODE: 10254	**DUAL**	**COURSE FEE:** $0
Project Management - Computer Support		**IT3611/IT3612**

This course gives students the opportunity to complete an internship or work cooperatively with other students to apply what they learned in Computer Science Essentials and Cybersecurity, Web Page Design, Computer Programming - Game Design or Digital Electronics. The course provides a work-based or project-based curriculum for the student to solve real world problems.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.		
PREREQUISITE: Computer Science Essentials 1 & 2 **COREQUISITE:** CompTIA A+ Essentials (ELEC 186) or CompTIA A+ Practical Applications		
CREDIT: 0.5	**TYPE**: Elective	**GRADE**: 11-12
STATE COURSE CODE: 31097		**COURSE FEE:** $0
Marketing Applications 1 & 2		**BF3411/BF3412** **BF3421/BF3422**

Students in Marketing Applications 1 & 2 will work together to develop a promotional plan for an individual company, business, organization, or club. Students will work directly with real-world clients and identify strategies for online, social media, video or print promotion. The class will also have the opportunity to develop proposals for a new product, business or service. Those enrolled will be expected to present their proposals to a panel of business and industry partners for feedback and discussion.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.		
PREREQUISITE: Marketing 1 & 2 or Business Communications and Media and Public Relations		
CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 35300		COURSE FEE: $0

Applied Business Development 1 & 2	BF3511/BF3512 BF3521/BF3522

Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business.

COURSE NOTE: This course is taught at the Lawrence College & Career Center. Transportation is provided from Lawrence High School and Lawrence Free State High School.		
PREREQUISITE: Accounting 1 & 2 or Entrepreneurship and Business Management		
CREDIT: 0.5	TYPE: Elective	GRADE: 11-12
STATE COURSE CODE: 32200		COURSE FEE: $0