All incoming freshmen must select one of the courses listed below to meet the NJ 21st Century Skills graduation requirement of 5 credits.

**Architecture in the 21st Century**
Within the context of Architecture, students will learn to communicate, connect and collaborate in a dynamic global society. Architecture in the 21st century will prepare students to be logical thinkers by the way of following a design loop process, emphasizing knowledgeable reason and problem solving proficiency. As well, Architecture in the 21st Century will prepare students to be effective communicators, successful in a multi-tasking society, effective time managers, and technologically organized. This shall be accomplished by promoting reasonable challenge, creativity, social connectivity and professional and emotional growth.

**Automotive Technology in the 21st Century**
This is an introductory, hands on course, an emphasis is placed on the needs of new drivers and first time car owners. By first learning about the basic tools, students learn how to safely perform basic car maintenance. Specialized 21st Century Skills will be included in the curriculum. The successful student will learn how major car systems work AND how to care for them. Topics include: 21st Century Skill content, safety, basic tools, changing oil, tire changes, and exterior/interior care. Students taking any automotive class will be transported by bus to the Middle School Campus.

**Business in the 21st Century**
In this introductory survey course, students will be exposed to major segments of the business environment in order to spark their interest in further study of business education. The course focuses on the environment in which business operates, the functional areas of business, and the language of business. Students will gain a wide array of business experiences ranging from starting a business to marketing and financing venture. Students will study the interrelationships between economics, entrepreneurship, management, marketing/advertising, credit, personal finance and career planning. The course provides the broad-based business knowledge and skills that every worker in all industries should know.

**Computer and Multimedia Applications in the 21st Century**
In this introductory computer course students will learn how to use Microsoft Windows and Microsoft Office, as well as Google Documents and Google Drive, to create, format, and edit a number of documents. Instruction in basic computer hardware and operating systems that support software applications is provided. Students will be introduced to effective and efficient computer use, including navigating through a PC, managing files and folders on storage devices, determining the credibility of websites, and using digital media in legal and ethical fashion. Current issues related to technology and its implication to our daily lives will be studied. Emphasis will be placed on using the computer as a tool to complete assignments in other classes.

**Computer Science in the 21st Century**
Prerequisite: Successful completion of Algebra I
This course is math-based and requires good computer knowledge, solid mathematical skills and sharp analytical skills. Topics include mathematical notation, read, write, and decision statements, loops, nested loops, generation of random numbers, procedures, functions, strings, text files, and arrays. The emphasis will be on using Pascal to develop good programming style and technique.

**Engineering in the 21st Century**
Throughout the year students will engage in different types of hands-on projects focusing on engineering principles. The focus of this class is to give students a hands-on look at being a prospective engineering student in college. Students will be introduced to the design loop where they will learn how to apply the process to a problem, design/build solutions and test their prototypes. Cooperative Learning is a key ingredient to this course as well as individual accountability.
**Fashion & Textiles in the 21st Century**
Fashion in the 21st Century introduces students to career paths in the Fashion Apparel Industry. A variety of hands-on creative projects gives students the opportunity to explore and develop the skills necessary for a career in the fashion industry. As well as a variety of media and technology tools, career ready practices will also be a major focus.

**Culinary Arts in the 21st Century**
Culinary Arts in the 21st Century explores career paths in the Food and Beverage Industry. Food preparation, production and marketing will be woven into the curriculum as a simulation of industry experience. A variety of media and technology tools will be stressed for career readiness. Simultaneously, students will learn skills that enable them to learn on their own, think critically and apply knowledge to new situations.

**Journalism for the 21st Century**
Internet and Newspaper Journalism for the 21st-Century teaches students to write, create layouts and produce the school's award-winning newspaper, The Viking Vibe found on vikingvibe.com. Students will write various types of newspaper stories: news, features, sports, entertainment and opinion. In addition, many students' work is published in the newspaper throughout the year. Students will gain experience in all phases of newspaper publication and online posting: proofreading, writing, creating headlines and designing layout.

**Kids in the 21st Century**
**Prerequisite:** Admission to this class is by application only. Please see your counselor to pick up an application.
Kids! Kids! Kids! 21st Century introduces students to the teaching profession by combining regularly scheduled class sessions with a play school laboratory experience. Emphasis is placed on the acquisition of workplace skills and the development of ethical behaviors/core values related to teaching. Students will gain experience with the "Tools of the Mind" preschool curriculum, and they will begin the study of child development through textbook assignments and observations in the playschool lab. Also, current topics related to children and their healthy development will be researched and shared using technology.

**Music for the 21st Century/ Chorus 9**
This course will allow choral students the opportunity to continue to study formally while enhancing their learning by infusing 21st century skills curriculum. Participation in rehearsals and performances in concerts is required.

**Technology in the 21st Century**
This survey course is designed to give students exposure to several different areas of technology education including mechanical systems, structural systems, engineering, architecture, transportation technology, electronics and robotics, communications and video production. Students will have the opportunity to develop critical thinking and problem solving skills while working in a team setting. There will be a focus on the design loop problem solving process, as students get a "taste" of various areas in the world of Technology. The skills gained in this class will foster life-long learners who are productive citizens and workers in a global community.

**Video in the 21st Century**
Students are introduced to the modern strategies of relaying information, while using print and video equipment. Through projects, the skills of planning, producing, and critiquing videos are developed. Students will be challenged to combine their technical and creative abilities in order to produce assignments. After successfully completing this course, students will be able to assist in productions for the Viking Television Network.

**Writing for Film and Media in the 21st Century**
Writing for Film and Media in the 21st Century will focus on writing for film, television, video and online media. Through analyzing and comparing scripts and final products, students will develop an understanding of the creation of movies, TV shows and online productions. The course will have the structure of a workshop in which students watch and discuss films, write scripts alone and with partners, and read and critique other students’ work.
**Cultures of the United States in the 21st Century**

The curriculum of this course has a focus on recognizing and encouraging empathy for the different cultures of the 21st Century. The culture of the United States is an eclectic mix of the experiences of individuals from many backgrounds and countries. Students in this course learn and examine the influence of different cultures that citizens and immigrants contribute to the 21st century United States. Students will also transfer this content to their daily school experiences. Topics will include orientation to technology (Google classroom, BYOD), communication with staff and administration, and involvement in the school community.