

# NHS Course Selection for 2020-2021 School Year

## Elective Offerings for Future Seniors

### ❖ **Forensic Science – 5 Credits** (*offered at CP level*)

This course is designed to introduce students to the ways science and the scientific method are applied to matters of law. The history and current state of forensic science, along with topics of crime scene analysis, collection and examination of physical evidence, properties of matter and glass analysis, serology (the study of bodily fluids), trace evidence of hairs and fibers, trace evidence of paints and metals, fingerprinting, ballistics and tool marks, fire and explosion investigations, handwriting and typescript analysis of documents, computer forensics, and forensic anthropology. Laboratory investigations will be an integral part of the Forensic Science course. **Prerequisite:** *passed Biology*

### ❖ **Anatomy & Physiology – 5 Credits** (*offered at Honors or CP level*)

The Anatomy and Physiology course is designed for the student interested in the study of medical science as well as those interested in the study of structure and function of the human body. There is a strong emphasis on laboratory work including dissection. Dissection is fundamental to the study of Anatomy and Physiology. As such, is a necessary part to this lab course. There will be significantly higher academic expectations of students in honors level courses.

### ❖ **Greek Mythology – 5 Credits** (*Offered at Honors or CP level*)

This course will introduce students to the major myths of Greek antiquity, including the works of Hesiod (origin of the gods) and Homer (the Trojan War and Odysseus), stories of heroes (Hercules, Jason, Perseus, Theseus), the “nasty women” (the Gorgons, the Fates, the Furies, the Sirens), the “nice women” (the Muses, the Graces), the lovers (Orpheus and Eurydice, Cupid and Psyche), the haters (Apollo and Daphne, Echo and Narcissus) and monsters and beasts (the children of Echidna *et alt.*).

### ❖ **Intro to Computer Programming – 5 Credits** (*offered at Honors level*)

This course is an introduction to computer programming. The class will introduce variables, operations, and data structures using Java. Basic concepts of operations systems, interfacing with networks, and internal workings of computers will also be covered. Students will develop skills, confidence, and experience writing programs in order to accomplish useful tasks. Course will prepare students for AP Computer Science.

### ❖ **Robotics – 5 Credits – MUST HAVE PASSED ENGINEERING OR PHYSICS** (*offered at Honors or CP level*)

The Robotics course covers the practice, technique, and theory behind mobile robotic systems. Topics in the first half of the year include simple robotic designs, sensors, motors, gears, feedback control systems, and cybernetics. Each student will design and create a robot that makes everyday tasks easier for an individual with physical disabilities. There will be significantly higher academic expectations of students in honors level courses. **Prerequisites:** *passed Engineering or Physics*

### ❖ **Senior Technology Service Elective – 5 Credits** (*offered at Honors level only*)

The Senior Technology Service Elective is a Technology-based elective open to a maximum of 7-8 NHS seniors per year. This course allows students to experience what it is like to troubleshoot end user-based technology problems on a daily basis. Acceptance into this course is competitive, and completing the prerequisites does not guarantee acceptance into this course.

### ❖ **Photography – 5 Credits** (*offered at Honors or CP level*)

This course is designed to introduce students to the basics of digital photography and alternative photographic processes. Students will learn technical considerations unique to photographic manipulation. Enrolled students will be responsible for providing their own camera, memory card and USB drive; special circumstances will be taken into consideration. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

### ❖ **Economics – 5 Credits** (*offered at Honors or CP level*)

The course seeks to provide young people with exposure to the theoretical concepts of micro and macro economics. Students must be able to comprehend advanced material, to do independent research, to express themselves through oral and written presentations and to engage in intensive study of the subject. The honors course in Economics is designed for the highly motivated student with above average ability.

### ❖ **Journalism – 5 Credits** (*offered at Honors or CP level*)

This full-year elective, open to all students, seeks to teach students to be more discerning consumers of news by learning the foundations of journalism and journalistic writing and by collaborating as a news staff to produce and publish a digital news website and its accompanying social media to cover Norwood school district and community news. Through a combination of

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### ❖ **Sociology – 5 Credits** *(offered at Honors or CP level)*

This full year course, open to juniors and seniors, focuses on the study of society, social institutions, and social relationships. A goal of the course is to make students aware of how sociology applies to many areas of life and how it can be used in day-to-day activities. The study of adolescence, deviance, gender and race will allow students to explore the many areas of sociology. Students selecting this course for honors credit will be required to take more extensive written exams and do an additional project commensurate with the awarding of honors credit by the instructor.

### ❖ **Psychology – 5 Credits** *(offered at Honors or CP level)*

This full year course, open to juniors and seniors, focuses on various aspects of human behavior. Emphasis will be on student preparation for difficult decision-making that will take place during their lives. The study of the science of psychology, the aspects of research, the human brain, sensation and perception, consciousness and abnormal psychology will allow students to explore the many areas of Psychology. The honors level course in addition to the Psychology curriculum will include a six page research paper, additional and more challenging essays on exams, additional analysis of work done by the class.

### ❖ **American Law – 5 Credits** *(offered at Honors or CP level)*

This course is a full year elective for junior and senior students only who want a traditional presentation of American Law. The course surveys the American legal system, the criminal justice system, constitutional law, and civil law. The objective of the course is to prepare students to become more civically engaged. At the Honors level, students must be independently motivated, and will be expected to engage in more intensive reading and writing.

### ❖ **Contemporary Problems – 5 Credits** *(offered at Standard level)*

This course is offered as a full-year course to seniors. It is designed for students who desire a practical rather than an academic interpretation of world affairs. Emphasis will be placed on current events. The reading of newspapers, magazines, and periodicals will be encouraged.

### ❖ **Concert Chorale – 5 Credits** *(offered at Honors or CP level)*

The Concert Chorale is an advanced level mixed (SATB) vocal ensemble that performs a wide variety of choral repertoire. This class will require participation in rehearsals and performances both during and after school. Participation in Concert Chorale is determined by audition and / or recommendation of the choral director. With the approval of the choral director, students may elect to take this class for honors credit. Students who elect to take this class for honors credit will be required to take private voice lessons and perform in a minimum of one class recital.

### ❖ **Concert Band – 5 Credits** *(offered at Honors or CP level)*

The Concert Band is an intermediate level instrumental ensemble that performs a wide variety of concert repertoire. Personal musicianship skills developed through participation in this ensemble include beginning to intermediate level playing techniques, music literacy, music theory, ear training, and performance experience. This class will require participation in rehearsals and performances both during and after school. Students who elect to take this class for honors credit will be required to take private instrumental lessons and perform in a minimum of one class recital.

### ❖ **The History of Rock & Roll – 5 Credits** *(offered at CP level)*

An elective course designed for students interested in learning about the development of popular American music. Students will listen to and analyze examples of music, starting with the folk music tradition and tracing it's evolution through classic rock and up to today's "top 40". Current or previous study of an instrument or voice is not necessary.

### ❖ **Intro to Guitar – 3 Credit Elective Minor** *(offered at CP level)*

Students will learn to play guitar and experience a wide variety of musical styles, such as folk, rock, blues, jazz, and country. Personal musicianship skills developed will include right and left hand playing techniques, ear training, improvisation, music literacy, and basic music theory. **\*Students need not own their own guitars. Instruments will be made available through the music department.\***

### ❖ **Exercise Physiology – 3 Credit** *(in class) or 5 Credit (hybrid online course); (offered at H or CP level)*

This course examines the human anatomical and physiological response to exercise and exercise training. Students who have a passion for exercise science and personal fitness will benefit and enjoy this course. Class time will include classroom instruction as well as time in the fitness center.