



## HIGHLIGHTING

Look for these courses on your course selection sheets!

# A FEW ELECTIVE OPTIONS AT NORTHROP

## 2018-2019

Advanced Placement (AP) and Dual-Credit (DC) courses are great options for students wanting to add rigor and earn college credits while taking high school classes at Northrop—we offer several AP and DC classes, and plan to add more in the future.

**AP CLASSES:** Art, Calculus, Economics, Literature, Physics, Psychology, U.S. History and World History

### ★ Spotlight on AP Economics

The microeconomics course is a one-semester class based on content established by the College Board; it gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within economics systems. Topics include basic economic concepts, the nature and function of markets, factor markets, market failure, and the role of government in managing economic markets. The one-semester macroeconomics course is also established based on content from the College Board, and this class focuses on principles that apply to economic systems as a whole. Topics in macroeconomics include economic performance measures, the financial sector, and international economics. For more information about either of these courses, see Mr. Cochran in D104.

### ★ Spotlight on AP Studio Art 2D Design Portfolio

This portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. The principles of design articulated through the visual elements help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. For this portfolio, students are asked to demonstrate proficiency in 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. See Mr. Platt for more information.

**DUAL CREDIT CLASSES:** SBP Astronomy (IPFW\*), SBP Chemistry (IPFW\*), SBP Chemistry II (IPFW\*), SBP Biology II (IPFW\*), PLW Introduction to Engineering Design, SBP US History (Trine), SBP Teaching Academy (IPFW\*), SBP Calculus (IPFW\*), SBP Pre-Calculus (IPFW\*), SBP Theater Arts (IPFW\*), SBP Music Theory (IPFW\*), SBP Composition WL131 (IPFW\*)

*\*after July 1, 2018, IPFW will be known as Purdue University Fort Wayne*

### ★ Spotlight on Introduction to Engineering Design (IED)

IED is the first of four engineering courses created by Project Lead the Way, a national educational program dedicated to developing STEM education in high schools across the country. This course will expose students to the design process, research and analysis, teamwork, communication methods, 3D CAD modeling, engineering standards, and technical documentation. The course is built around projects and problem-based learning and assumes no previous knowledge, but students should be concurrently enrolled in college prep math and science classes. Talk to Mr. Shipe in E205/G104 for more information.

### ★ Spotlight on Teaching Academy and Dual Credit Teaching Academy

Did you know that a shortage of qualified teachers has been projected nationwide? Have you ever considered becoming a teacher? The Teaching Academy is open to 11<sup>th</sup> and 12<sup>th</sup> grade students with at least a B average and two teacher recommendations. The program includes field observations and an internship working in elementary classrooms, and the dual credit option (open to seniors who have completed the initial class) is certified through IPFW/Purdue University at Fort Wayne. Dual Credit Teaching Academy is listed as SBP Teaching Academy on your course selection sheets. Talk to Mrs. Cross (C200), in English or in Spanish, for more details.

## ★ Other Electives You Might Not Know About . . .

**ADVANCED FOREIGN LANGUAGE CLASSES:** Being able to speak more than one language is just about the best thing you can do for your brain and your future job prospects. Stick with learning a foreign language for two, three, and even four years. In fact, we can offer Spanish V if students advance to that level.

**MUSIC THEORY AND COMPOSITION:** This course is based on Indiana's state standards for music and is designed to develop skills in the analysis of music and theoretical concepts. Students develop ear training and dictation skills, compose works that illustrate mastered concepts, understand harmonic structures and analysis, understand modes and scales, study a wide variety of musical styles, study traditional and nontraditional music notation and sound sources as tools for musical composition, and receive detailed instruction in other basic elements of music.

**DANCE:** Northrop's Dance Program offers classes for all students. Dance 1 is designed for students with very little or no dance training and begins with basic terminology and beginning dance steps. Dance 2 and Dance 3 are continuations of Dance 1. Dance 4 is an advanced class that students audition for in April; students in this class are part of the Northrop Dance Team. The Dance Team consists of three groups: Varsity Jazz team, Varsity Hip Hop team, and JV Hip Hop team. The Dance Team performs at school events and competes at state competitions. Finally, students have the opportunity to become Teaching Assistants during their junior and senior years for the lower level dance classes. For more information about the dance program, contact Mrs. Helmuth in the dance studio (J103).

**FASHION AND TEXTILES:** Do you have a passion for fashion? Fashion and Textiles Careers is an exciting new follow up class to Intro to Fashion and Textiles that will be offered in the 2018/19 school year. This year-long class will include creating a design portfolio as well as creating a hands on portfolio of clothing that we will build both from patterns, and from scratch. We will also plan a fashion show from start to finish that will showcase all of your creativity, and design projects at the end of the school year. If you haven't taken Introduction to Fashion and Textiles with Ms. Brumbaugh yet, this is an excellent 1 semester class that fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma! Come see Ms. B in B205 if you have any questions about either course.

**HOLOCAUST STUDIES:** The introduction to the Holocaust and Genocidal Studies course at Northrop examines the origins of the prejudice(s) experienced by the Jewish people utilizes this as a platform to examine and investigate the prejudices experienced by other cultures throughout the world. To help further cement this knowledge base, students will take part in interviews with living Holocaust survivors. This class is meant for individuals with a strong passion for history, and it maintains as a collegiate pace: students will conduct a minimum of 5-7 hours per week of individualized reading and study to gain and maintain proficiency in the course.

**DIGITAL APPLICATIONS:** This class prepares students to use technology in an effective and appropriate manner in school, in a job, or in everyday life. Students develop skills related to word processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills. Students have the opportunity to earn Microsoft certifications in this course.

**WWII:** Students will learn about the events leading up to the war as well as the key events that took place from 1939-1945. Students will read college level materials, participate in live interviews with participants of WWII, and actively disseminate and "wargame" various battles from both the European and Pacific theatres. This course is taught at a pace equivalent with that of a college level course, so students need to be highly motivated to succeed and understand materials presented.

**ENVIRONMENTAL SCIENCE:** Are you interested in environmental issues and potentially saving the world from destruction? This interdisciplinary course integrates biology, earth science, chemistry, and other disciplines to study current environmental issues. Students learn about the interactions between the physical, chemical, and biological components of the environment and conduct in-depth scientific studies of ecosystems, population dynamics, and resource management, as well as analyze the environmental consequences of natural and anthropogenic processes. This class is recommended for juniors and seniors.