

Newcastle Board of Education Special Meeting
February 24, 2025 6:00 PM
Administration Office Board Room
101 N Main St
Newcastle, Oklahoma 73065

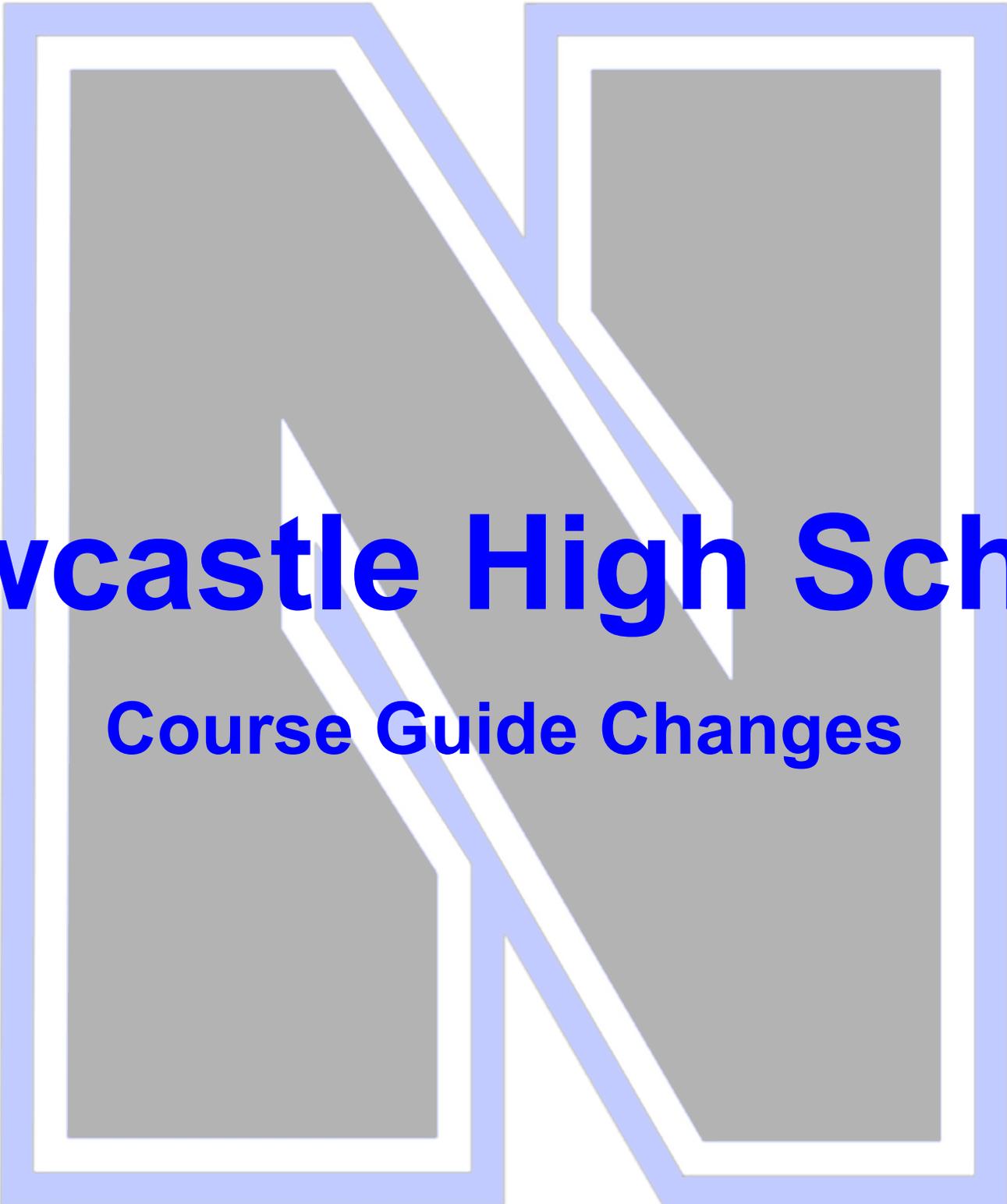
1. Call to Order and Roll Call of Members.
2. Discussion and possible action regarding January Extra Duty Payroll and Disbursements
3. Discussion and possible action regarding the Newcastle High School 2025-2026 Course Description Guide.
4. Presentation, discussion and action regarding the 2025-2030 Newcastle Public School Strategic Plan
5. Adjournment.

This agenda was posted on the front door of the Administration Building on February 20, 2025 at 5:00pm by Darla Allen

**Newcastle Public Schools
Payroll Summary
February 24, 2025**

Substitute Payroll FY25 (2/25/2025)

\$12,092.82

A large, stylized letter 'N' logo in the background. The 'N' is filled with a grey color and has a white outline. This white outline is itself surrounded by a blue border. The logo is centered on the page.

Newcastle High School

Course Guide Changes

Valedictorian Page

Changes reflect the Student Hand Book

25/26 Course Guide Page 3

VALEDICTORIAN

To be considered as VALEDICTORIAN OF CLASS the following requirements must be met:

Class of 2026, 2027, and 2028

Eligibility Criteria:

1. Grade Point Average (GPA)
 - a. Candidates must have achieved a 4.0 unweighted GPA throughout their high school career
 - b. GPA will be calculated based on all courses taken for high school credit.
2. Mathematics and Science Requirement
 - a. Candidates must have successfully completed a minimum of 4 courses for each during their high school career
3. Advanced Coursework
 - a. Candidates must have successfully completed at least 2 courses that are either:
 - i. Advanced Placement (AP) courses, or
 - ii. Dual Credit courses (college-level courses taken for both high school and college credit)
4. College Entrance Exam
 - a. Candidates must score a 27 or higher on the ACT or SAT equivalent

All students meeting the above-mentioned criteria will be honored as Valedictorian and ranked number one. Newcastle High School uses the unweighted GPA to determine Valedictorian status and is the preferred calculation of local colleges and universities.

Beginning with the Class of 2029

1. Eligibility Criteria:
2. Grade Point Average (GPA):
 - a. Candidates must have achieved a 4.0 unweighted GPA throughout their high school career.
 - b. GPA will be calculated based on all courses taken for high school credit.
3. Mathematics, Science, History, English Requirement:
 - a. Candidates must have successfully completed a minimum of 4 courses for each during their high school career.
4. Advanced Coursework:
 - a. Candidates must have successfully completed at least 2 courses that are either:
 - i. Advanced Placement (AP) courses, or
 - ii. Concurrent enrollment courses (college-level courses taken for both high school and college credit)

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VALEDICTORIAN

To be considered as VALEDICTORIAN OF CLASS the following requirements must be met:

Take 4 Math courses and 4 Science courses, 2 AP or 2 Concurrent courses, score a 27 or higher on the ACT or SAT equivalent, and maintain a 4.0 GPA.

All students meeting the above-mentioned criteria will be honored as Valedictorian and ranked number one. Newcastle High School uses the unweighted GPA to determine Valedictorian status and is the preferred calculation of local colleges and universities.

Dual Credit Opportunity

Changes reflect updated verbiage

25/26 Course Guide Page 7

DUAL CREDIT ENROLLMENT Northwestern Oklahoma State University

A dual credit/concurrent student is a student taking college courses while still in high school. Newcastle High School has partnered with Northwestern Oklahoma State University to provide our students with the opportunity to get a head start on earning college credits while also fulfilling their high school graduation requirements.

NHS will provide academic credit for any concurrently enrolled higher education courses that are correlated with the academic credit awarded by the institution of higher education. (70.O.S. S 628.13) Page 8 of this guide provides a list of approved courses available for dual credit per the state of Oklahoma. Please note that students are only permitted to enroll in the courses listed below.

Juniors may take up to 9 college credits (3 courses) per year. If juniors elect to take 3 courses, they will take 1 in the fall semester and 2 in the spring semester. Seniors may take up to 18 college credits (6 courses). Seniors can begin courses starting in June the summer before senior year. All concurrent students must still be enrolled in 6 rigorous courses per semester. Please note that in order to enroll in a science course at the concurrent level, students must complete all high school science graduation requirements.

Concurrent grades earned will be placed on the high school transcript and will figure into the GPA. College credit is issued by the given institution. The student will receive credits from the given institution per their requirements. Students are responsible to report any changes in their concurrent enrollment status to their school counselor the day that changes are made to allow for a high school schedule change. Failure to report withdrawal from a college course(s) will result in academic consequences. If a course is dropped during the respective institutions valid "withdraw" period, a grade of I (Incomplete) and No Credit (NC) will be recorded on the high school transcript. Students will reconcile lost credits through the Credit Recovery process when applicable.

Students are **required** to schedule an advising appointment with their counselor prior to enrolling in any college courses to confirm eligibility and to complete required forms.

The deadline to enroll in concurrent classes for the spring semester is the 1st Thursday of December

The deadline to enroll in concurrent courses for the fall semester is the 1st Thursday of May.

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CONCURRENT ENROLLMENT OCCC, MACU, OSU-OKC, OU

A concurrent student is a student taking college courses while still in high school. Through our local colleges and universities, students can get a head start on earning college credits and get a taste of college life.

NHS will provide academic credit for any concurrently enrolled higher education courses that are correlated with the academic credit awarded by the institution of higher education. (70.O.S. S 628.13) A list of approved courses is listed on the next page.

Juniors may take up to 9 college credits (3 courses) per year. If juniors elect to take 3 courses, they will take 1 in the fall semester and 2 in the spring semester. Seniors may take up to 18 college credits (6 courses). Seniors can begin courses starting in June the summer before senior year. All concurrent students must still be enrolled in 6 rigorous courses per semester. Please note that in order to enroll in a science course at the concurrent level, students must complete all high school science graduation requirements.

Concurrent grades earned will be placed on the high school transcript and will figure into the GPA. College credit is issued by the given institution. The student will receive credits from the given institution per their requirements. Students are responsible to report any changes in their concurrent enrollment status to their school counselor the day that changes are made to allow for a high school schedule change. Failure to report withdrawal from a college course(s) will result in academic consequences. If a course is dropped during the respective institutions valid "withdraw" period, a grade of I (Incomplete) and No Credit (NC) will be recorded on the high school transcript. Students will reconcile lost credits through the Credit Recovery process when applicable.

Students are **required** to schedule an advising appointment with their counselor prior to enrolling in any college courses to complete required forms.

The deadline to enroll in concurrent classes for the spring semester is the 1st Thursday of December

The deadline to enroll in concurrent courses for the fall semester is the 1st Thursday of May.

Dual Credit Opportunity

Changes reflect updated verbiage and removes Functions & Modeling

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DUAL CREDIT ENROLLMENT Northwestern Oklahoma State University

Eligible Content Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standards and alignment to Oklahoma graduation requirement.

- Engl1113: Comp I (0.5 credit) * Must take Comp I & II to count for English IV
- Engl1213: Comp II (0.5 credit) * Must take Comp I & II to count for English IV
- Hist1493: US History 1877 to present (1 credit)
- Math1513: College Algebra (1 credit)
- Math1533: Pre Calc (1 credit)
- Pols1113: US Government (1 credit)
- Bio1113: General Biology (1 credit)
- Chem1115: General Chemistry (1 credit)
- Psyc1113: Intro to Psych (1 credit) *Eligible only for additional unit under the social studies category
- Soc1113: Intro to Sociology (1 credit)*Eligible only for additional unit under the social studies category
- Hum/Music1113: Music Appreciation or American Popular Music (1 Fine Art credit)
- Art1053: Art Appreciation: Renaissance-Modern (1 Fine Art credit)

Eligible Elective Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standards and alignment to Oklahoma graduation requirement. To be approved, the course must be specifically titled as such.

- Humanities: General, Ancient World - Middle Ages, Classical Greece- Middle Ages, Humanities I (0.5 Electives)
- Health: Personal Health, Wellness & Human Development, Choices in Wellness, Wellness & Positive lifestyle (0.5 Elective)
- Bio1023: Nutrition (0.5 Elective credit)
- Spch1113: Public Speaking/Speech (0.5 Elective credit)

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CONCURRENT ENROLLMENT OCCC, MACU, OSU-OKC, OU

Eligible Content Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standard and alignment to Oklahoma graduation requirement.

- Engl1113: Comp I (0.5 credit) * Must take Comp I & II to count for English IV
- Engl1213: Comp II (0.5 credit) * Must take Comp I & II to count for English IV
- Hist1493: US History 1877 to present (1 credit)
- Math1483: Functions & Modeling (1 credit)
- Math1513: College Algebra (1 credit)
- Math1533: Pre Calc (1 credit)
- Pols1113: US Government (1 credit)
- Bio1113: General Biology (1 credit)
- Chem1115: General Chemistry (1 credit)
- Psyc1113: Intro to Psych (1 credit) *Eligible only for additional unit under the social studies category
- Soc1113: Intro to Sociology (1 credit)*Eligible only for additional unit under the social studies category
- Hum/Music1113: Music Appreciation or American Popular Music (1 Fine Art credit)
- Art1053: Art Appreciation: Renaissance-Modern (1 Fine Art credit)

Eligible Elective Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standard and alignment to Oklahoma graduation requirement. To be approved, the course must be specifically titled as such.

- Humanities: General, Ancient World - Middle Ages, Classical Greece- Middle Ages, Humanities I (0.5 Electives)
- Health: Personal Health, Wellness & Human Development, Choices in Wellness, Wellness & Positive lifestyle (0.5 Elective)
- Bio1023: Nutrition (0.5 Elective credit)
- Spch1113: Public Speaking/Speech (0.5 Elective credit)

Minimum Graduation Requirements

Changes reflect 1 credit of other additional history course

25/26 Course Guide Page 9

MINIMUM GRADUATION CREDIT REQUIREMENTS

The College Preparatory Plan and Core Curriculum Plan are the standard component of the required course of study to graduate from Oklahoma Public Schools. In accordance with state law, ALL students entering 9th grade will be enrolled in the college preparatory curriculum. Prior to entering the 11th grade, students will have the option to "opt out" of the college preparatory curriculum with the parent/guardian's approval.

SUBJECT	COLLEGE PREPARATORY PLAN	CORE CURRICULUM
English	4 Total Credits English I English II English III English IV or Comp I and Comp II	4 Total Credits English I English II English III English IV or Comp I and Comp II
Science	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology
Math	3 Total Credits 1 credit of Algebra I 1 credit of Geometry 1 credit of Algebra II All 3 credits must occur in high school	3 Total Credits Must include 1 credit in Algebra I 2 credits of the following: Geometry, Advanced Programming, Intermediate Algebra, Computer Science 1, Computer Science 2, Math of Finance, completion of one- year, full time CareerTech Program leading to an industry certification
Social Studies	3 Total Credits 0.5 Oklahoma History 1 US History 0.5 Government 1 Other Approved History Course	3 Total Credits 0.5 Oklahoma History 1 US History 0.5 Government 1 Other Approved History Course
Additional Core	One Additional Core from above, Tech, or Spanish, or another approved course	
Fine Art	1 Credit	1 Credit
Foreign Language or Technology	2 Total Credits 2 years of the same language or 2 credits of Technology courses	1 Total Credits 1 credit of Technology or World Language
Total Credits	College Preparatory Plan College Preparatory Plan plus electives to earn at least 23 total credits . All students are required to take a Personal Financial Literacy Course and CPR Training. Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.	Core Curriculum Plan Core Curriculum Plan plus electives to earn at least 23 total credits . All students are required to take a Personal Financial Literacy Course and CPR Training Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.

24/25 Course Guide Page 8

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SUBJECT	COLLEGE PREPARATORY PLAN	CORE CURRICULUM
English	4 Total Credits English I English II English III English IV or Comp I and Comp II	4 Total Credits English I English II English III English IV or Comp I and Comp II
Science	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology
Math	3 Total Credits 1 credit of Algebra I 1 credit of Geometry 1 credit of Algebra II All 3 credits must occur in high school	3 Total Credits Must include 1 credit in Algebra I 2 credits of the following: Geometry, Advanced Programming, Intermediate Algebra, Computer Science 1, Computer Science 2, Math of Finance, completion of one- year, full time CareerTech Program leading to an industry certification
Social Studies	3 Total Credits 0.5 Oklahoma History 1 World History 1 US History 0.5 Government	3 Total Credits 0.5 Oklahoma History 1 World History 1 US History 0.5 Government
Additional Core	One Additional Core from above, Tech, or Spanish, or another approved course	
Fine Art	1 Credit	1 Credit
Foreign Language or Technology	2 Total Credits 2 years of the same language or 2 credits of Technology courses	1 Total Credits 1 credit of Technology or World Language
Total Credits	College Preparatory Plan College Preparatory Plan plus electives to earn at least 23 total credits . All students are required to take a Personal Financial Literacy Course and CPR Training. Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.	Core Curriculum Plan Core Curriculum Plan plus electives to earn at least 23 total credits . All students are required to take a Personal Financial Literacy Course and CPR Training Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.

History

Changes reflect offerings and show dual credit opportunities better highlighted

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HISTORY 3 Credits Required

OKLAHOMA HISTORY
COURSE CODE: SS 5615
LEVEL: 9
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one-semester class emphasizes the contributions of all ethnic groups in the social, economic, and political development of the state. The unique role of the American Indian is a major focus of the class including a study of tribal variations in customs and practices. Students also become familiar with the geography of Oklahoma and the developments since statehood.

This is a one semester course paired with Freshman Orientation.

POLITICAL SCIENCE
COURSE CODE: SS 5770
LEVEL: 10
CREDIT: 1
PREREQUISITE: None
NCAA OP

This course will give students an analytical perspective on government and politics in the United States, including both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will also become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes

U.S. HISTORY
COURSE CODE: SS 5410
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This course is a general survey course of the history of the North American continent, beginning from the end of Reconstruction to the present day. This course will be geared around primary documents, lectures, critical thinking, and analysis, as well as classroom discussions and debates. This course aims at preparing the students for college by teaching them effective note-taking techniques, as well as the ability to organize information from lectures to construct a timeline of relevant events in American history. The first semester includes Native American resistance, early civil rights movements, and the Progressive era. The second semester is spent primarily in the twentieth century, with a study of how the major events of this era. (The Great Depression, World War II, the Cold War, Civil Rights, Vietnam, the Gulf War, the War on Terror), reflect and shape the position of the United States in the world today.

AP U.S. HISTORY
COURSE CODE: SS 5415
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This two-semester course is designed to be the equivalent of an introductory college course and prepare the student to take the AP Exam in May. It presents a survey of United States History from colonization to the present. The student is expected to display a requisite grasp of the assigned reading, competent writing skills, an ability to discern various points of view and understand its impact on interpretation, essential skills in handling and defending a position, and the capability of making judicious analyses and evaluations of primary documents.

U.S. GOVERNMENT
COURSE CODE: SS 5541
LEVEL: 10, 12
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one semester course that studies the extraordinarily dynamic American system of government. Students will study why the government is the institution through which society makes and enforces its public policies. The course will encourage active participation in the process of government and citizenship by engaging students in topics and issues that are relevant to their lives. The course will provide a strong foundation in the origins and principles of American government. We will emphasize multiple viewpoints to get students thinking and making decisions about real issues. We will explore controversial issues through case studies and special features that promote active citizenship.

Northwestern Oklahoma State University

Dual Credit Opportunity

US HISTORY SINCE 1877
COURSE CODE: HIST 1493
LEVEL: 12
CREDIT: 0.5
NCAA OP

From 1877 to present. Post-reconstruction; industrialism; immigration; reform movements; race, gender and ethnicity; cultural conflicts; the welfare state; and international relations.

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OKLAHOMA HISTORY
COURSE CODE: SS 5615
LEVEL: 9
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one-semester class emphasizes the contributions of all ethnic groups in the social, economic, and political development of the state. The unique role of the American Indian is a major focus of the class including a study of tribal variations in customs and practices. Students also become familiar with the geography of Oklahoma and the developments since statehood.

This is a one semester course paired with Freshman Orientation.

WORLD HISTORY
COURSE CODE: SS 5731
LEVEL: 10
CREDIT: 1
PREREQUISITE: None
NCAA OP

Students will trace the enduring philosophical, religious, political, economic and social contributions from the ancient and classical eras through the modern world. The students will examine the impact of the European Renaissance and Reformation, various revolutionary movements, the Industrial Revolution, the global impact of both World Wars, the transformation of societies in the Post-World War Two Era, and recent contemporary events and issues. Throughout the year, importance will be placed upon the need for accurate geographic knowledge which will include an emphasis on the role of geography in shaping historical events.

U.S. HISTORY
COURSE CODE: SS 5410
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This course is a general survey course of the history of the North American continent, beginning from the end of Reconstruction to the present day. This course will be geared around primary documents, lectures, critical thinking, and analysis, as well as classroom discussions and debates. This course aims at preparing the students for college by teaching them effective note-taking techniques, as well as the ability to organize information from lectures to construct a timeline of relevant events in American history. The first semester includes Native American resistance, early civil rights movements, and the Progressive era. The second semester is spent primarily in the twentieth century, with a study of how the major events of this era. (The Great Depression, World War II, the Cold War, Civil Rights, Vietnam, the Gulf War, the War on Terror), reflect and shape the position of the United States in the world today.

AP U.S. HISTORY
COURSE CODE: SS 5415
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This two-semester course is designed to be the equivalent of an introductory college course and prepare the student to take the AP Exam in May. It presents a survey of United States History from colonization to the present. The student is expected to display a requisite grasp of the assigned reading, competent writing skills, an ability to discern various points of view and understand its impact on interpretation, essential skills in handling and defending a position, and the capability of making judicious analyses and evaluations of primary documents.

U.S. GOVERNMENT
COURSE CODE: SS 5541
LEVEL: 10
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one semester course that studies the extraordinarily dynamic American system of government. Students will study why the government is the institution through which society makes and enforces its public policies. The course will encourage active participation in the process of government and citizenship by engaging students in topics and issues that are relevant to their lives. The course will provide a strong foundation in the origins and principles of American government. We will emphasize multiple viewpoints to get students thinking and making decisions about real issues. We will explore controversial issues through case studies and special features that promote active citizenship.

ECONOMICS
COURSE CODE: SS 5521
LEVEL: 10
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

Basic economic theory is the foundation of this course as students learn how fundamental decisions about the four factors of production are made. Key topics covered include: law of supply and demand, saving, borrowing, and spending; the Federal Reserve System and the money supply; and the role of government in an open market economy.

CIVICS
COURSE CODE: SS 5450
LEVEL: 10
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

Civics examines the general structure and functions of U.S. systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system.

AMERICAN FEDERAL GOVERNMENT (POLS 1113)
COURSE CODE: 40108 OCCC, 40138 MACU, 40147 OSU-OKC
LEVEL: 11, 12
CREDIT: 0.5
NCAA OP

A study of the principles, structures, processes, and functions of the United States federal government

AMERICAN HISTORY SINCE 1877 (HIST 2493)
COURSE CODE: 40102 OCCC, 40138 MACU, 40148 OSU-OKC
LEVEL: 12
CREDIT: 0.5
NCAA OP

From 1877 to present. Post-reconstruction; industrialism; immigration; reform movements; race, gender and ethnicity; cultural conflicts; the welfare state; and international relations.

BMITE

Changes reflect offerings

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BUSINESS, MANAGEMENT, INFORMATION TECHNOLOGY EDUCATION

FUNDAMENTALS OF TECHNOLOGY

COURSE CODE: TECH 8101
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None
OP



This course will provide students with the fundamental concepts, principles, and ideas needed to understand how a business is operated and managed in a rapidly changing global environment, which is needed for success in careers in business related fields. This course also provides job readiness skills and soft skills that are critical for success in any workplace setting.

AP COMPUTER SCIENCE

COURSE CODE: TECH 2535
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology
OP



Students will be able to demonstrate an understanding of java programming languages by implementing and writing programs employing various techniques.

DESKTOP PUBLISHING (YEARBOOK)

COURSE CODE: TECH 8145
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: Teacher Approval
OP



The primary objectives of this course are instruction in publication, production, and completion of the yearbook. The goal of the yearbook is that it represents, as completely as possible, a history of each school year from first day to last. Students will develop skills in leadership, copywriting, on-line publishing, advertising, marketing, and sales. Yearbook students will learn current publication trends and attend workshops in the summer and during the academic school year. Students are also expected to invest a substantial amount of time outside of school meeting deadlines, attending activities for the purpose of taking pictures, learning the maintenance and use of the high-level photographic equipment, communicating with local businesses, and attending summer training, producing and computer editing. Students will receive training in photography and videography techniques to create various projects.

DIGITAL EDITING AND PRODUCTION

PHOTOGRAPHY
COURSE CODE: TECH 8151
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology
OP



In this course, students will acquire skills in digital photography. Additionally, students will understand certification standards and copyright basics.

ENTREPRENEURSHIP

COURSE CODE: ELE 8816
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology



This course will provide students with fundamental concepts, principles and ideas needed to understand the basics of entrepreneurship in business management. Skills demonstrated are as follows: develop a Business Plan, Identify Marketing Needs, Insurance Concepts pertaining to a business, how to market a business, maintain records and accounting processes, manage finances, integrate technology into the business functions, apply legal, ethical and social obligations, and analyze the growth of today's marketplace.

OFFICE MANAGEMENT/INTRODUCTION TO

ENTREPRENEURSHIP
COURSE CODE: TECH 8105
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology



This course helps students discover what an entrepreneurial career entails. Students will look at the relationship between entrepreneurship and business skills and learn about career opportunities and skills needed to become an entrepreneur.

BUSINESS AND MARKETING COMMUNICATIONS

COURSE CODE: ELE 8811
LEVEL: 10, 11, 12
CREDIT: 0.5
PREREQUISITE: Fundamentals of Technology



This course applies marketing skills developed through a variety of informal and formal experiences. The performance-based course will emphasize effective interpersonal and team building skills along with written and oral communication techniques. Technology will be used to create and deliver presentations, enhance problem solving situations, and practice critical thinking and decision-making. Job interviews, research paper, and/or projects will culminate this course.

BUSINESS, MANAGEMENT, INFORMATION TECHNOLOGY EDUCATION

FUNDAMENTALS OF TECHNOLOGY

COURSE CODE: TECH 8101
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None
OP



This course will provide students with the fundamental concepts, principles, and ideas needed to understand how a business is operated and managed in a rapidly changing global environment, which is needed for success in careers in business related fields. This course also provides job readiness skills and soft skills that are critical for success in any workplace setting.

FUNDAMENTALS OF WEB DESIGN

COURSE CODE: TECH 8153
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology
OP



Students will acquire fundamental web authoring skills and design strategies through the application of XHTML incorporating Cascading Style Sheets and future trends in web programming. Once XHTML foundation skills are achieved, students will utilize a WYSIWYG editor and a graphics application package to produce standards-based web sites.

AP COMPUTER SCIENCE

COURSE CODE: TECH 2535
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology
OP



Students will be able to demonstrate an understanding of java programming languages by implementing and writing programs employing various techniques.

DESKTOP PUBLISHING (YEARBOOK)

COURSE CODE: TECH 8145
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: Teacher Approval



The primary objectives of this course are instruction in publication, production, and completion of the yearbook. The goal of the yearbook is that it represents, as completely as possible, a history of each school year from first day to last. Students will develop skills in leadership, copywriting, on-line publishing, advertising, marketing, and sales. Yearbook students will learn current publication trends and attend workshops in the summer and during the academic school year. Students are also expected to invest a substantial amount of time outside of school meeting deadlines, attending activities for the purpose of taking pictures, learning the maintenance and use of the high-level photographic equipment, communicating with local businesses, and attending summer training.

RACERVISION

COURSE CODE: TECH 8154
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology, Teacher Approval
OP



RacerVision is a Sports Broadcasting Class. Students will learn how to operate video editing systems, cameras, how to properly set up and take down equipment for a broadcast. Students will oversee running broadcasts from start to finish. Students will have to be able to devote some time outside of school as most of our games are played at night or afternoon. Students will also learn the fundamentals of broadcast production, including writing, producing and computer editing. Students will receive training in photography and videography techniques to create various projects.

ENTREPRENEURSHIP

COURSE CODE: TECH 8105
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology
OP



This course would provide students with fundamental concepts and ideas needed to understand the basics of running a business. Skills that will be demonstrated are as follows: develop a Business Plan, identify market needs, insurance concepts pertaining to a business, how to market a business, maintain records and accounting processes, manage finances, integrate technology into the business functions, apply legal, ethical and social obligations, and analyze the growth of today's marketplace. Students will apply what they learn by developing their own detailed business plan. Self-employment is presented as a viable career option. Students will develop leadership traits and identify their leadership potential through participation in the BPA student organization. Students will run the school store.

DIGITAL MARKETING

COURSE CODE: TECH 8828
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology



This course will cover a high-level approach to marketing strategies utilizing mobile technology, social media, and search engine optimization. This course will encompass all marketing efforts that use an electronic device or the internet such as search engines, social media, email, and their websites to connect with current and prospective customers. (This course is not offered every year.)

BMITE

Changes reflect offerings

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SPORTS AND ENTERTAINMENT MARKETING

COURSE CODE: ELE 8810

LEVEL: 10, 11, 12

CREDIT: 0.5

PREREQUISITE: Fundamentals of Technology



This is a specialized course designed for students with a career interest in the sports and entertainment industry. Instructional areas will include: orientation to the sports and entertainment industry, economics, decision-making, event marketing, sales and sales promotions, event executions, legal aspects/contracts, and career opportunities. Classroom instruction will be reinforced through the use of outside lectures, case studies, field trip experiences, job shadowing, current periodicals, computers and software, in-house projects, and constructive/discovery learning. Students will develop leadership traits and identify their leadership potential through participation in the DECA (an association of marketing students) student organization.

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FUNDAMENTALS OF GAMING

COURSE CODE: TECH 8228

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Fundamentals of Technology



This course helps develop core gaming development skills that includes a solid foundational knowledge of game design, hardware, graphics, and animation. It is recommended that students be familiar with general game development concepts and have some hands-on experience with this technology. Students will be able to demonstrate an understanding of programming languages by implementing and employing various techniques.

OFFICE MANAGEMENT/INTRODUCTION TO

ENTREPRENEURSHIP

COURSE CODE: TECH 8105

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Fundamentals of Technology



This course helps students discover what an entrepreneurial career entails. Students will look at the relationship between entrepreneurship and business skills and learn about career opportunities and skills needed to become an entrepreneur.

BUSINESS MANAGEMENT AND SUPERVISION

COURSE CODE: TECH 8808

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Fundamentals of Technology



This course studies the planning, organizing, directing, and controlling the use of an organization's resources to effectively and economically attain its objectives. Students learn the art and science of management and supervision in problem-solving, decision making, and working with other people to accomplish common goals.

BUSINESS AND MARKETING COMMUNICATIONS

COURSE CODE: ELE 8911

LEVEL: 10, 11, 12

CREDIT: 0.5

PREREQUISITE: Fundamentals of Technology



This course applies marketing skills developed through a variety of informal and formal experiences. The performance-based course will emphasize effective interpersonal and team building skills along with written and oral communication techniques. Technology will be used to create and deliver presentations, enhance problem solving situations, and practice critical thinking and decision-making. Job interviews, research paper, and/or projects will culminate this course.

BUYING AND MERCHANDISING

COURSE CODE: ELE 8825

LEVEL: 10, 11, 12

CREDIT: 0.5

PREREQUISITE: Fundamentals of Technology



This is an introductory course designed to explore the role and responsibility of a buyer and merchandiser. It covers the job skills necessary to prepare for the role of a buyer or merchandiser including the ability to use mathematical formulas, budgeting, research, making purchases, and additional responsibilities of the buyer.

DESIGN TOOLS AND ELECTRONIC MARKETING STRATEGIES

COURSE CODE: TECH 8154

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Fundamentals of Technology

OP



In this course, students will become proficient in the use of premier, leading edge tools designed to create graphically rich and intuitive websites, productions, and/or publications. The primary focus of this course includes color and design theories, accessibility, and marketing strategies resulting in a digital portfolio.

ETHICAL LEADERSHIP

COURSE CODE: ELE 8829

LEVEL: 10, 11, 12

CREDIT: 0.5

PREREQUISITE: Fundamentals of Technology



This course is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law, and viability. Students apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of a class service-learning project.

CYBERSECURITY BASIC

COURSE CODE: TECH 8258

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: None

OP



Students will learn defensive and hardening techniques used in a Windows, Cisco, and Linux environment, along with the ethical behaviors needed to be successful in industry.

Additional Courses and Electives

Changes reflect law requiring PFL to be offered to older students

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LEADERSHIP

LEADERSHIP I

COURSE CODE: ELE 27801
LEVEL: 9
CREDIT: 1
PREREQUISITE: None



Students will gain a greater understanding of how to implement leadership concepts and qualities, with an emphasis on developing their personal leadership skills. They will obtain hands-on experience in leadership through involvement in the student body and development of school and community programs, activities and events. Students will learn about and take part in the governance process of the school and community. They will display the appropriate attitude and responsibilities of leaders. Students will promote initiative, leadership, democracy and school spirit. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP II

COURSE CODE: ELE 27802
LEVEL: 10
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership I. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP III

COURSE CODE: ELE 27803
LEVEL: 11
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership II. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP IV

COURSE CODE: ELE 27804
LEVEL: 12
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership III. *All STUCO Officers and Class Officers are required to enroll in this course.*

EVENT PLANNING

COURSE CODE: ELE 2775
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: Teacher Approval Needed



All major school events, such as student socials, homecoming, dances, public relations, ecology and community service drives are coordinated through this class.

FRESHMEN SUCCESS

COURSE CODE: PFLCPR
LEVEL: 9
CREDIT: 0.5
PREREQUISITE: None

Students will complete the personal financial literacy, HIV and CPR requirements from the Oklahoma State Department of Education. Each week students will complete a component of SAT preparation. Career exploration and personal leadership will be focal components of this class. Students will begin to develop their ICAP Portfolio.

Senior Capstone

COURSE CODE:
LEVEL: 12
CREDIT: 0.5
PREREQUISITE: None

This course will walk seniors through post-secondary options of college and career and personal finance. Students will perform in-depth career exploration, choose an industry they can envision a future career in, and develop a plan to pursue their goal in that industry. Students will also research colleges and how to apply to those colleges as well as apply for grants and financial aid. This course also explores the financial obligations and decisions that await them after high school and will cover the Financial Literacy requirements needed to graduate.

Note: This course is required for graduation.

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LEADERSHIP

LEADERSHIP I

COURSE CODE: ELE 27801
LEVEL: 9
CREDIT: 1
PREREQUISITE: None



Students will gain a greater understanding of how to implement leadership concepts and qualities, with an emphasis on developing their personal leadership skills. They will obtain hands-on experience in leadership through involvement in the student body and development of school and community programs, activities and events. Students will learn about and take part in the governance process of the school and community. They will display the appropriate attitude and responsibilities of leaders. Students will promote initiative, leadership, democracy and school spirit. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP II

COURSE CODE: ELE 27802
LEVEL: 10
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership I. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP III

COURSE CODE: ELE 27803
LEVEL: 11
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership II. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP IV

COURSE CODE: ELE 27804
LEVEL: 12
CREDIT: 1
PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership III. *All STUCO Officers and Class Officers are required to enroll in this course.*

EVENT PLANNING

COURSE CODE: ELE 2775
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: Teacher Approval Needed



All major school events, such as student socials, homecoming, dances, public relations, ecology and community service drives are coordinated through this class.

FRESHMEN SUCCESS

COURSE CODE: PFLCPR
LEVEL: 9
CREDIT: 0.5
PREREQUISITE: None

Students will complete the personal financial literacy, HIV and CPR requirements from the Oklahoma State Department of Education. Each week students will complete a component of SAT preparation. Career exploration and personal leadership will be focal components of this class. Students will begin to develop their ICAP Portfolio.

Note: This course is required for graduation.

Additional Courses and Electives

Changes reflect offerings

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ADDITIONAL ELECTIVES AND INTERNSHIP

RACERCONNECT INTERNSHIP

COURSE CODE: **INTERJR** (Junior), **INTERSR** (Senior)
LEVEL: 11, 12
CREDIT: varies by numbers of class periods interning
PREREQUISITE: Counselor Approval



This class utilizes classroom instruction and on-site intern experience. Upon completion of this course you have a better understanding of employment soft skills and specific career options. Traditional letter-grades will be assigned for this class, grades are based upon work attendance and performance reviews, classroom performance during instructional time and weekly journals and a final project. Times and credit for this class vary based on the student's schedule and the amount of time spent at the worksite.

AVIATION I

COURSE CODE: ELE 8874
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



This course is for students interested in learning about flight, unmanned aircraft systems (drones) and other important STEM topics. Students enrolled will study aviation history, aviation safety, and the systems of flight. Aviation will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will also learn about the wide variety of exciting and rewarding careers available to them.

AVIATION II

COURSE CODE: TECH 8875
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Aviation I



In this course, students will take an in-depth look at the systems that make manned and unmanned aircraft work. Beginning with aircraft propulsion, students will learn about the different types of engines that produce thrust to propel an aircraft or UAS. They will go on to explore other key aircraft systems, including fuel, electrical, landing gear, and environmental. In order to fly an aircraft safely, students must also learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This course also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Finally, students will complete a project of designing their own airplane, and will explore the benefits of mentorship and work-based learning experiences.

AVIATION III

COURSE CODE: TECH 8876
LEVEL: 11, 12
CREDIT: 1
PREREQUISITE: AVIATION I & II



Student will use technology to learn the foundations of both manned and unmanned aviation and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

AIRCRAFT SCIENCE

COURSE CODE: TECH 8888
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



This course covers safety, ground operations and servicing, hand tool and measuring devices, weight and balance, mathematics, physics for aviation, maintenance and inspection regulations, aircraft drawings, and fluid lines and fittings that align with the FAA-ACS-AM standards for aircraft maintenance technicians.

ENGINEERING ESSENTIALS

COURSE CODE: ELE 8710
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



Engineering Essentials offers a multidisciplinary approach to teaching and learning foundational concepts of engineering practice, providing students opportunities to explore the breadth of engineering career opportunities and experiences and solve engaging and challenging real-world problems.

INTRODUCTION TO ENGINEERING DESIGN

COURSE CODE: ELE 8711
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Engineering Essentials



Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software.

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ADDITIONAL ELECTIVES AND INTERNSHIP

RACERCONNECT INTERNSHIP

COURSE CODE: **INTERJR** (Junior), **INTERSR** (Senior)
LEVEL: 11, 12
CREDIT: varies by numbers of class periods interning
PREREQUISITE: Counselor Approval



This class utilizes classroom instruction and on-site intern experience. Upon completion of this course you have a better understanding of employment soft skills and specific career options. Traditional letter-grades will be assigned for this class, grades are based upon work attendance and performance reviews, classroom performance during instructional time and weekly journals and a final project. Times and credit for this class vary based on the student's schedule and the amount of time spent at the worksite.

AVIATION I

COURSE CODE: TECH 8874
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



This course is for students interested in learning about flight, unmanned aircraft systems (drones) and other important STEM topics. Students enrolled will study aviation history, aviation safety, and the systems of flight. Aviation will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will also learn about the wide variety of exciting and rewarding careers available to them.

AVIATION II

COURSE CODE: TECH 8875
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Aviation I



In this course, students will take an in-depth look at the systems that make manned and unmanned aircraft work. Beginning with aircraft propulsion, students will learn about the different types of engines that produce thrust to propel an aircraft or UAS. They will go on to explore other key aircraft systems, including fuel, electrical, landing gear, and environmental. In order to fly an aircraft safely, students must also learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This course also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Finally, students will complete a project of designing their own airplane, and will explore the benefits of mentorship and work-based learning experiences.

AIRCRAFT SCIENCE

COURSE CODE: TECH 8888
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



This course covers safety, ground operations and servicing, hand tool and measuring devices, weight and balance, mathematics, physics for aviation, maintenance and inspection regulations, aircraft drawings, and fluid lines and fittings that align with the FAA-ACS-AM standards for aircraft maintenance technicians.

ENGINEERING ESSENTIALS

COURSE CODE: ELE 8710
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



Engineering Essentials offers a multidisciplinary approach to teaching and learning foundational concepts of engineering practice, providing students opportunities to explore the breadth of engineering career opportunities and experiences and solve engaging and challenging real-world problems.

INTRODUCTION TO ENGINEERING DESIGN

COURSE CODE: ELE 8711
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Engineering Essentials



Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software.

TEACHING AND LEARNING IN ELEMENTARY/MIDDLE/SECONDARY EDUCATION [TEACHING CADETS]

COURSE CODE: ELE 8459
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None



Our Teaching and Learning in Elementary/Middle/Secondary Education class prepares students as Teacher Cadets. The class is an innovative hands-on course designed for high school students who are interested in becoming teachers or have a job/career working with children where they will gain experiences in a classroom. These experiences will enable them to make informed decisions regarding such careers. Students will experience and explore the professional roles of educators, effective teaching practices, and develop an understanding of school structure.

NEWCASTLE HIGH SCHOOL



2025-2026 Course Guide

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VALEDICTORIAN

To be considered as VALEDICTORIAN OF CLASS the following requirements must be met:

Class of 2026, 2027, and 2028

Eligibility Criteria:

1. Grade Point Average (GPA)
 - a. Candidates must have achieved a 4.0 unweighted GPA throughout their high school career
 - b. GPA will be calculated based on all courses taken for high school credit.
2. Mathematics and Science Requirement
 - a. Candidates must have successfully completed a minimum of 4 courses for each during their high school career
3. Advanced Coursework
 - a. Candidates must have successfully completed at least 2 courses that are either:
 - i. Advanced Placement (AP) courses, or
 - ii. Dual Credit courses (college-level courses taken for both high school and college credit)
4. College Entrance Exam
 - a. Candidates must score a 27 or higher on the ACT or SAT equivalent

All students meeting the above-mentioned criteria will be honored as Valedictorian and ranked number one. Newcastle High School uses the unweighted GPA to determine Valedictorian status and is the preferred calculation of local colleges and universities.

Beginning with the Class of 2029

1. Eligibility Criteria:
2. Grade Point Average (GPA):
 - a. Candidates must have achieved a 4.0 unweighted GPA throughout their high school career.
 - b. GPA will be calculated based on all courses taken for high school credit.
3. Mathematics, Science, History, English Requirement:
 - a. Candidates must have successfully completed a minimum of 4 courses for each during their high school career.
4. Advanced Coursework:
 - a. Candidates must have successfully completed at least 2 courses that are either:
 - i. Advanced Placement (AP) courses, or
 - ii. Concurrent enrollment courses (college-level courses taken for both high school and college credit)

STUDENT ATHLETES – NCAA REQUIREMENTS

Students who plan to continue participating in competitive sports at the college level must contact the NCAA Clearinghouse to be sure of eligibility during their junior year of high school. The NCAA has its own guidelines for high school courses to qualify for admission to college athletics. Parents are urged to contact the NCAA early to ensure eligibility. The NCAA Clearinghouse website is www.eligibilitycenter.org

Division I Academic Requirements

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

CORE-COURSE REQUIREMENTS

Earn 16 NCAA-approved core-course credits in the following areas:

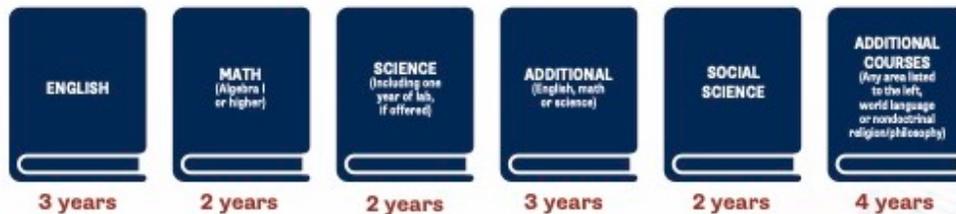


Division II Academic Requirements

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

CORE-COURSE REQUIREMENTS

Earn 16 NCAA-approved core-course credits in the following areas:



OKLAHOMA'S PROMISE

Oklahoma's Promise allows 8th, 9th, 10th, and 11th grade students from families with an income of \$60,000 or less to earn a college tuition scholarship. Students must also meet academic and conduct requirements in high school.

Students must take the following high school coursework to meet Oklahoma's Promise program requirements. The Oklahoma's Promise [Curriculum Worksheet](#) can help students record their grades and ensure they have taken the right courses. For more detailed course information go to the following link:

https://secure.okcollegestart.org/College_Planning/Prepare_for_College/course_guidelines.aspx

UNITS	COURSES
4	English (grammar, composition, literature; courses should include an integrated writing component)
3	Lab Science (biology, chemistry, physics, or any lab science certified by the school district; general sciences with or without a lab may not be used to to meet this requirement)
3	Math (Algebra I, Algebra II, geometry, [must have completed geometry and Algebra II], trigonometry, pre-calculus, statistics and probability, calculus, AP statistics)
3	History and citizenship skills (including one unit of American history and two additional units from the subjects of history, economics, geography, government, non-Western culture)
2	<p>Foreign or non-English language (two years of the same language)</p> <p>or</p> <p>Computer Technology (two units in programming, hardware and business computer applications, such as word processing, databases, spreadsheets and graphics, will qualify; keyboarding or typing classes do NOT qualify)</p> <p>1 foreign language and 1 computer course will NOT meet this requirement.</p>
1	Additional course from any of the subjects listed above or psychology, sociology, or any concurrent liberal arts and science course at a State System institution
1	Fine Arts (music, art, drama) or Speech
17	Total Units



MID AMERICA TECHNOLOGY CENTER

Mid-America Technology Center District was formed in 1968, and we held our first classes in the fall of 1971 serving 17 feeder schools with 13 programs. Today we have 28 programs, 19 feeder schools and an average enrollment of 1000 full-time program students. Mid-America Technology Center is known throughout the state as a training and educational system of choice, filled with people training on state-of-the-art equipment. Guided by values and industry, our energetic staff operates as a fine-tuned, precision team preparing individuals for present and future demands of a world workforce.

Mid-America Technology Center covers a geographical area of McClain, Garvin counties and parts of Cleveland, Pottawatomie, and Grady counties. Serving Blanchard, Bridge Creek, Dibble, Elmore City-Pernell, Lexington, Lindsay, Little Axe, Maysville, Newcastle, Noble, Paoli, Pauls Valley Purcell, Stratford, Wanette, Washington, Wayne, Whitebead *K-8, and Wynnewood.

MATC offers full-time educational opportunities for high school students. Full-time classes are held during the day from 8:30 – 11:30 a.m. and 12:30 – 3:30 p.m. High school students may attend either session. High school students can finish over a two-year period attending half-day sessions. MATC offers 30 full-time programs, which are also referred to as Career Pathways. Each of these programs prepares students for a variety of career opportunities that exist within that specific pathway. Students can enroll in some additional courses to meet graduation requirements.

Full-Time Programs Available

70203 Audio Visual Integration	70201 Equine Production
70225 Automotive Service Technician	70209 Graphic Design
70208 Building and Property Maintenance	70212 Health Careers Explorer
70233 Business and Office Assistant	70202 Horticulture Technician
70204 CADD	70206 HVAC Technician - Residential
70234 CareerTech Explorer	70223 Industrial Robotics & Automation
70205 Carpentry - Residential	70210 Medical Office Assistant
70221 CNC Machinist	70218 Multimedia Specialist
70226 Combination Collision Repair Technician	70219 Network Systems Technician
70216 Cosmetologist	70213 Pre-Nursing
70220 Criminal Justice Officer	70214 Therapeutic Health Services
70217 Cyber Security	70230 Veterinary Assistant
70227 Diesel Service Technician	70222 Welder/NCCER Level 2 Plus
70207 Electrician Res./Commercial	Oklahoma School of Science & Mathematics
70211 Emergency Medical Technician	** 70224 Pre-Engineering

DUAL CREDIT ENROLLMENT

Northwestern Oklahoma State University

A dual credit/concurrent student is a student taking college courses while still in high school. Newcastle High School has partnered with Northwestern Oklahoma State University to provide our students with the opportunity to get a head start on earning college credits while also fulfilling their high school graduation requirements.

NHS will provide academic credit for any concurrently enrolled higher education courses that are correlated with the academic credit awarded by the institution of higher education. (70.O.S. S 628.13) Page 8 of this guide provides a list of approved courses available for dual credit per the state of Oklahoma. Please note that students are only permitted to enroll in the courses listed below.

Juniors may take up to 9 college credits (3 courses) per year. If juniors elect to take 3 courses, they will take 1 in the fall semester and 2 in the spring semester. Seniors may take up to 18 college credits (6 courses). Seniors can begin courses starting in June the summer before senior year. All concurrent students must still be enrolled in 6 rigorous courses per semester. Please note that in order to enroll in a science course at the concurrent level, students must complete all high school science graduation requirements.

Concurrent grades earned will be placed on the high school transcript and will figure into the GPA. College credit is issued by the given institution. The student will receive credits from the given institution per their requirements. Students are responsible to report any changes in their concurrent enrollment status to their school counselor the day that changes are made to allow for a high school schedule change. Failure to report withdrawal from a college course(s) will result in academic consequences. If a course is dropped during the respective institutions valid "withdraw" period, a grade of I (Incomplete) and No Credit (NC) will be recorded on the high school transcript. Students will reconcile lost credits through the Credit Recovery process when applicable.

Students are **required** to schedule an advising appointment with their counselor prior to enrolling in any college courses to confirm eligibility and to complete required forms.

The deadline to enroll in concurrent classes for the spring semester is the 1st Thursday of December

The deadline to enroll in concurrent courses for the fall semester is the 1st Thursday of May.

DUAL CREDIT ENROLLMENT

Northwestern Oklahoma State University

Eligible Content Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standards and alignment to Oklahoma graduation requirement.

- Engl1113: Comp I (0.5 credit) * Must take Comp I & II to count for English IV
- Engl1213: Comp II (0.5 credit) * Must take Comp I & II to count for English IV
- Hist1493: US History 1877 to present (1 credit)
- Math1513: College Algebra (1 credit)
- Math1533: Pre Calc (1 credit)
- Pols1113: US Government (1 credit)
- Bio1113: General Biology (1 credit)
- Chem1115: General Chemistry (1 credit)
- Psyc1113: Intro to Psych (1 credit) *Eligible only for additional unit under the social studies category
- Soc1113: Intro to Sociology (1 credit)*Eligible only for additional unit under the social studies category
- Hum/Music1113: Music Appreciation or American Popular Music (1 Fine Art credit)
- Art1053: Art Appreciation: Renaissance-Modern (1 Fine Art credit)

Eligible Elective Courses: The course codes and units earned for dual high school/college credit reflect careful consideration of the Oklahoma Academic Standards and alignment to Oklahoma graduation requirement. To be approved, the course must be specifically titled as such.

- Humanities: General, Ancient World - Middle Ages, Classical Greece- Middle Ages, Humanities I (0.5 Electives)
- Health: Personal Health, Wellness & Human Development, Choices in Wellness, Wellness & Positive lifestyle (0.5 Elective)
- Bio1023: Nutrition (0.5 Elective credit)
- Spch1113: Public Speaking/Speech (0.5 Elective credit)

MINIMUM GRADUATION CREDIT REQUIREMENTS

The College Preparatory Plan and Core Curriculum Plan are the standard component of the required course of study to graduate from Oklahoma Public Schools. In accordance with state law, ALL students entering 9th grade will be enrolled in the college preparatory curriculum. Prior to entering the 11th grade, students will have the option to “opt out” of the college preparatory curriculum with the parent/guardian’s approval.

SUBJECT	COLLEGE PREPARATORY PLAN	CORE CURRICULUM
English	4 Total Credits English I English II English III English IV or Comp I and Comp II	4 Total Credits English I English II English III English IV or Comp I and Comp II
Science	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology	3 Total Credits Must include 1 credit in Biology 1 credit: Physics, Chemistry or Physical Science 1 credit of the following: Physical Science, Chemistry I, Chemistry II, Physics, Biology II, Anatomy/Physiology, Forensics, Astronomy/Meteorology
Math	3 Total Credits 1 credit of Algebra I 1 credit of Geometry 1 credit of Algebra II All 3 credits must occur in high school	3 Total Credits Must include 1 credit in Algebra I 2 credits of the following: Geometry, Advanced Programming, Intermediate Algebra, Computer Science 1, Computer Science 2, Math of Finance, completion of one- year, full time CareerTech Program leading to an industry certification
Social Studies	3 Total Credits 0.5 Oklahoma History 1 US History 0.5 Government 1 Other Approved History Course	3 Total Credits 0.5 Oklahoma History 1 US History 0.5 Government 1 Other Approved History Course
Additional Core	One Additional Core from above, Tech, or Spanish, or another approved course	
Fine Art	1 Credit	1 Credit
Foreign Language or Technology	2 Total Credits 2 years of the same language or 2 credits of Technology courses	1 Total Credits 1 credit of Technology or World Language
Total Credits	College Preparatory Plan College Preparatory Plan plus electives to earn at least 23 total credits. All students are required to take a Personal Financial Literacy Course and CPR Training. Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.	Core Curriculum Plan Core Curriculum Plan plus electives to earn at least 23 total credits. All students are required to take a Personal Financial Literacy Course and CPR Training Students should choose an Individualized Career and Academic Pathway. The plan of study will help the student to make solid course plans choices as they relate to their career choice.

GRADUATION CHECKLIST

Course Requirements	
English (4)	Science (3)
(Sem 1) (Sem 2) _____ English I _____ English II _____ English III _____ English IV _____ Other Approved Course (AP English III, AP English IV, Comp I, Comp 2)	(Sem 1) (Sem 2) _____ Biology I _____ Chemistry 1, Physical Science or Physics -AND- _____ Additional Physical Science (Physics, Chemistry 1, Chemistry II) -OR- _____ Additional Life Science (Forensic Science, Biology II, AP Biology, Anatomy/Physiology) -OR- _____ Additional Earth Science (Earth Science, Astronomy/Meteorology, AP Environmental Science)
Mathematics (3)	World Language OR Technology (2)
3 Math Credits are required to be taken 9-12 grade (Sem 1) (Sem 2) _____ Algebra I _____ Geometry _____ Algebra II _____ Pre-Calculus _____ Business Statistics _____ Other Approved Course (AP Calculus, Functions and Modeling, College Math)	(Sem 1) (Sem 2) _____ Spanish I _____ Spanish II -OR- _____ Fundamentals of Technology _____ Other Approved Course (Fundamentals of Web Design, AP Computer Science, Racer Vision, Entrepreneurship, Office Management/Intro to Entrepreneurship, Design Tools and Electronic Marketing Strategies, Cybersecurity Basic)
History (3)	Fine Arts (1)
(Sem 1) (Sem 2) _____ 0.5 Oklahoma History _____ 0.5 US Government _____ US History _____ Other Approved History	(Sem 1) (Sem 2) _____ Music, Art, or Drama _____ Humanities _____ Speech and Communications
Electives (6)	Additional Requirements (1)
(Sem 1) (Sem 2) _____ Elective 1 _____ Elective 2 _____ Elective 3 _____ Elective 4 _____ Elective 5 _____ Elective 6	(Sem 1) (Sem 2) _____ Choose one of the following subjects: (English, Math, Science, History, World Language or Computer Technology) Required to Complete: _____ ACT _____ CCRA Hisotry and Science Exams _____ Personal Financial Literacy _____ CPR _____ ICAP

Beginning with the class of 2025, all students must take the US Naturalization Test and complete the FASFA as a requirement to graduate.

All course offerings must have sufficient student interest to justify its inclusion in the schedule.

PATHWAYS

At Newcastle High School, the goal is for students to graduate with a plan. Career pathways are a way to organize a plan of study where students can choose classes that will be meaningful to their desired career. All occupations within the United States are included in the six pathways below.

<p style="text-align: center;">Environmental and Agricultural Systems</p> 	<p>This pathway prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional technical, and educational services.</p>
<p style="text-align: center;">Health Services</p> 	<p>The Health Services pathway will be the fastest growing pathway over the next decade. This industry includes establishments ranging from small-town private practice physicians who employ only one medical assistant to busy inner city hospitals that provide thousands of diverse jobs.</p>
<p style="text-align: center;">Communication Information Services</p> 	<p>This pathway prepares learners for careers in the Arts, A/V Technology, Information Technology, and Communications.</p>
<p style="text-align: center;">Human Services</p> 	<p>The Human Services pathway relates to meeting human needs. This includes careers relating to counseling and mental health services, family and community services, personal care and consumer services, law, public safety, corrections and security, government and public administration, as well as education and training.</p>
<p style="text-align: center;">Business Marketing and Management</p> 	<p>Business Marketing and Management includes a wide range of careers in advertising, marketing, promotions, public relations, sales management, hospitality, tourism, financial and investment planning, banking, insurance, and business financial management.</p>
<p style="text-align: center;">Industrial, Manufacturing, and Engineering Systems</p> 	<p>This broad pathway prepares learners for positions in manufacturing, science, technology, engineering, mathematics, distribution and logistics, as well as architecture and construction.</p>

COURSES AVAILABLE BY PATHWAY

	Environmental and Agricultural Systems	Health Services	Communication Information Services
Freshman	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History
Sophomore	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Astronomy/Meteorology Political Science US Government	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Biology II AP Biology Anatomy/Physiology Political Science US Government	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Political Science US Government
Junior	English III AP English III Algebra II Pre-Calculus Earth Science AP Environmental Science US History AP US History	English III AP English III Algebra II Pre-Calculus Physical Science Chemistry II Anatomy/Physiology US History AP US History	English III AP English III Algebra II Pre-Calculus Physical Science Chemistry I US History AP US History
Senior	English IV AP English IV AP Calculus US Government Personal Financial Literacy	English IV AP English IV AP Calculus US Government Personal Financial Literacy	English IV AP English IV AP Calculus US Government Personal Financial Literacy
Electives	Introduction to Agriculture Introduction to Ag Communications Ag Power I Ag Power II Livestock Production FACS Ed Capstone Spanish I, II, III, or IV	Culinary Arts FACS Ed Capstone Spanish I, II, III, or IV Strength and Conditioning	Fundamentals of Technology Desktop Publishing Digital Editing and Production Photography Introduction to Entrepreneurship Entrepreneurship Business Management and Supervision Sports and Entertainment Marketing Art I, II, or III Racer Band Racer Choir Music Technology Introduction to Ag Communications Adulting 101 FACS Ed Capstone Spanish I, II, III, or IV Leadership I, II, III, or IV Creative Writing Social Relations and Communications Child Development Theatre Arts

COURSES AVAILABLE BY PATHWAY

	Human Services	Business Marketing and Management	Industrial, Manufacturing, and Engineering Systems
Freshman	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History	English I Pre-AP English I Algebra I Geometry Biology I Oklahoma History
Sophomore	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Biology II Anatomy/Physiology Forensic Science Political Science US Government	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Biology II AP Biology Anatomy/Physiology Political Science US Government	English II Pre-AP English II Geometry Algebra II Physical Science Chemistry I Biology II Political Science US Government
Junior	English III AP English III Algebra II Pre-Calculus Physical Science US History AP US History	English III AP English III Algebra II Pre-Calculus Business Statistics Physical Science Chemistry II Anatomy/Physiology US History AP US History	English III AP English III Algebra II Pre-Calculus Chemistry II Biology II Earth Science Physics Astronomy/Meteorology US History AP US History
Senior	English IV AP English IV AP Calculus US Government Personal Financial Literacy	English IV AP English IV Business Statistics AP Calculus US Government Personal Financial Literacy	English IV AP English IV AP Calculus US Government Personal Financial Literacy
Electives	Fundamentals of Technology Desktop Publishing Digital Editing and Production Photography Introduction to Entrepreneurship Entrepreneurship Business Management and Supervision Sports and Entertainment Marketing Art I, II, or III Racer Band Racer Choir Music Technology Marriage and Adultery FACS Ed Capstone Spanish I, II, III, or IV Leadership I, II, III, or IV Creative Writing Social Relations and Communications Child Development Theatre Arts Teaching and Learning	Fundamentals of Technology Desktop Publishing Digital Editing and Production Photography Introduction to Entrepreneurship Entrepreneurship Business Management and Supervision Sports and Entertainment Marketing Art I, II, or III Racer Band Racer Choir Music Technology Culinary Arts FACS Ed Capstone Leadership I, II, III, or IV Social Relations and Communications Creative Writing Theatre Arts	Ag Power I or II FACS Ed Capstone Engineering Essentials Introduction to Engineering Design Aviation I Aviation II Aviation III Aircraft Science

ENGLISH

4 Credits Required

ENGLISH I (GRAMMAR & COMP)

COURSE CODE: ENG 4045

LEVEL: 9

CREDIT: 1

PREREQUISITE: None

NCAA OP

English I has a high focus and emphasis on grammar and composition and is a year-long course in which students will evaluate, interpret, analyze, and respond to a variety of texts including fiction, non-fiction, drama, and poetry. Students will write for a variety of audiences using the writing process to develop effective, coherent work. Students will demonstrate the command of the conventions of Standard English. Students will learn and practice skills pertaining to reading comprehension, literary analysis, writing, speaking, listening, and visual literacy.

PRE AP ENGLISH I

COURSE CODE: ENG 4045AP

LEVEL: 9

CREDIT: 1

PREREQUISITE: None

NCAA OP

This course is designed for those students who show exemplary reading and writing skills in English and want to prepare for future AP English courses. Throughout the course of the year, students will read from multiple genres, including fiction, nonfiction, poetry, drama, and novels, and will focus on identifying and analyzing literary elements. Students will write for a variety of purposes, including persuasion, narration, exposition, reflection, research, literary analysis, and poetry. Students will also study grammar, usage, and mechanics to facilitate more advanced writing. Students in this course will utilize the College Board Pre AP Curriculum.

ENGLISH II (WORLD LITERATURE)

COURSE CODE: ENG 4048

LEVEL: 10

CREDIT: 1

PREREQUISITE: English I

NCAA OP

English II is a sophomore level class combining literature and grammar. The course is designed to acquaint students with the various genres of literature as well as to emphasize writing skills. Objectives are designed to meet the Oklahoma Academic Standards. Literature selections will be a mixture of American, English and world authors covering poetry, drama, short stories, and novels. Grammar and mechanics will be used to reinforce and improve writing basics such as sentence structure, paragraphs, and essay writing.

PRE AP ENGLISH II

COURSE CODE: ENG 4048AP

LEVEL: 10

CREDIT: 1

PREREQUISITE: English I

NCAA OP

This sophomore level class meets the standards and requirements of English II while providing a challenging class for college-bound students. Vocabulary, writing and the study of complex literature are the major focuses of the course. Literature selections will be a mixture of American, English and world authors covering poetry, drama, short stories, and novels. Grammar and mechanics will be used to reinforce and improve writing basics such as sentence structure, paragraph, and essay writing. Students are expected to complete both individual and group assignments and projects. Students in this course will utilize the College Board Pre AP Curriculum.

ENGLISH III (AMERICAN LITERATURE)

COURSE CODE: ENG 4051

LEVEL: 11

CREDIT: 1

PREREQUISITE: English II

NCAA OP

This course is designed to improve students' ability to read for a variety of purposes, plan and develop several types of writing, apply standards of English grammar and usage, speak effectively and listen responsively, and develop higher order thinking skills. Students in this course will examine American literature to determine common themes among literary selections and to explore the changing cultural beliefs and values in American history and literature. Students can also expect vocabulary studies based on Greek and Latin roots, a variety of essay assignments, traits of writing analysis, fiction and nonfiction analysis, grammar and sentence structure studies, novel studies, presentations, as well as a research paper and/or project.

AP ENGLISH III (LANGUAGE & COMPOSITION)

COURSE CODE: ENG 4057

LEVEL: 11

CREDIT: 1

PREREQUISITE: English II

NCAA OP

This junior level course meets the requirements and standards of English III and follows the standards set forth by College Board in order to be designated an AP class. AP English Language and Composition is designed to be equivalent to an introductory college-level composition course. In this class, students will cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style. Students will learn to support arguments with a solid line of reasoning through writing rhetorical analysis, argument, and synthesis essays. Students will also develop presentation skills and write research papers, as well as utilize critical thinking and analytical skills. This course prepares students to take the optional AP English Language and Composition exam at the end of the year; a qualifying score on this exam could translate to college credit.

ENGLISH IV (BRITISH LITERATURE)

COURSE CODE: ENG 4054

LEVEL: 12

CREDIT: 1

PREREQUISITE: English III

NCAA OP

English IV is a senior level class combining literature, writing, and grammar. The survey course covers the literature of Britain from the Anglo-Saxon period to present time. Understanding of the literature and its historical context is demonstrated through a variety of written assignments. Grammar and mechanics will be used to reinforce and improve writing basics such as sentence structure, paragraph and essay writing. Students in this course will be expected to write well-supported arguments, synthesize sources in a research paper, compare narrative and expository pieces, and compare pieces of literature through analytical writing.

AP ENGLISH IV

COURSE CODE: ENG 4010

LEVEL: 12

CREDIT: 1

PREREQUISITE: English III

NCAA OP

AP English IV is intended to replace college level freshman English. This course meets the standards and requirements of English IV and provides instruction for writing the essays needed for the College Board's AP test in English Literature. Students in this class will engage in a rigorous study of English and American Literature as well as writing and analytical skills. Students will explore several different genres of literature and outside reading should be expected. Students will develop presentations and work on research papers, as well fine tune critical and literary analysis and vocabulary studies. Students will be prepared to take the optional AP Literature and Composition Exam; a qualifying score on this exam could translate to college credit.

Northwestern Oklahoma State University

Dual Credit Opportunity

ENGLISH COMPOSITION I

COURSE CODES: ENGL 1113

LEVEL: 12

CREDIT: 0.5

PREREQUISITE: English III

NCAA OP

This course prepares students for college level writing. Essay style, organization, and development as well as critical thinking skills will be emphasized. Passing this class first semester and ENGL 1213 will complete the requirements for taking English IV.

ENGLISH COMPOSITION II

COURSE CODE: ENGL 1213

LEVEL: 12

CREDIT: 0.5

PREREQUISITE: ENGL 1113

NCAA OP

A continuation of the writing experience begun in Composition I. Writing experiences are concurrent with thematic material, including imaginative literature and writing across the curriculum. Incorporation of research techniques leading to the production of research papers. Passing this class and ENGL 1113 first semester will complete the requirements for taking English IV.

MATH

3 Credits Required

ALGEBRA I

COURSE CODE: MATH 4411

LEVEL: 9

CREDIT: 1

PREREQUISITE: None

NOTE: A scientific calculator is needed. (TI-30XS is preferred.)

NCAA OP

Students in this course will identify functions as linear or nonlinear and contrast their properties from tables, graphs, or equations. Students will solve equations, inequalities and systems while performing the basic operations with polynomials in making connections with real world applications.

Note: Algebra I taken prior to 9th grade will be recorded on the student's transcript. It will be credited toward high school elective requirements, and it will figure into the high school grade point average. If the course is taken prior to 9th grade it cannot be repeated for a higher grade.

Algebra I is the first of three math courses required for graduation and college admission.

TRANSFORMATIONAL TUTORING

COURSE CODE: ELE 4405

LEVEL: 9

CREDIT: 1

PREREQUISITE: Selected based on standardized test scores

This course is offered through a partnership with the University of Oklahoma's Transformative Tutoring Initiative. This initiative is grounded in rigorous experimental research showing large gains in academic skills, graduation rates, and overall student engagement. Incoming ninth-grade students are identified as requiring additional/remedial support in math based on their standardized test scores in math at the end of 8th grade. The pool of incoming students requiring additional/remedial support in math is randomly placed into one of at least two available sections of an additional/remedial math class for ninth grade students. One section of the remedial class is randomly selected to work with tutors provided by OU three times a week while the other section(s) of the additional/remedial class(es) proceeds as usual.

GEOMETRY

COURSE CODE: MATH 4520

LEVEL: 9, 10

CREDIT: 1

PREREQUISITE: Algebra I

NOTE: A scientific calculator is needed. (TI-30XS is preferred.)

NCAA OP

This course focuses on the basic definitions in plane geometry along with triangles, quadrilaterals, polygons, and circles. Properties of similarity and congruence, basic constructions, perimeter and area, inductive and deductive reasoning, and basic proofs are studied along with an introduction to coordinate geometry, trigonometry, and solid geometry.

Geometry is the second of three math courses required for graduation and college admission.

INTERMEDIATE ALGEBRA

COURSE CODE: MATH 4418

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Algebra I, Geometry (Teacher Approval)

This course is designed to reinforce Algebra I and Geometry skills. It focuses on skill development and foundational concepts of Algebra.

Note: This course does not count as math credit for Oklahoma's Promise. It counts as a MATH CREDIT for Core Curriculum only.

ALGEBRA II

COURSE CODE: MATH 4412

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Successful completion of Algebra I & Geometry

NOTE: A TI-84 PLUS CE graphing calculator is needed.

NCAA OP

This course is a continuation of Algebra I with an emphasis on the real and complex number systems, solving linear and quadratic equations and inequalities by various methods, using coordinate geometry with graphing, solving systems of equations, and introducing logarithms, trigonometry, or other areas of mathematics. Emphasis is placed on problem solving and applications. The graphic calculator will be used extensively throughout this course.

Algebra II is one of three classes required for college admission.

PRE-CALCULUS

COURSE CODE: MATH 4611

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Algebra II

NOTE: A TI-84 PLUS CE graphing calculator is needed.

NCAA OP

This class is designed for students who have a strong background in mathematics and plan on continuing in math or STEM related fields. This course consists of an advanced study of equations, quadratics, polynomials, exponential and logarithmic functions, as well as a complete semester course of trigonometry. This course also prepares students for the AP Calculus course.

AP CALCULUS AB

COURSE CODE: MATH 4615

LEVEL: 12

CREDIT: 1

PREREQUISITE: A or B in all previous math classes

NOTE: A TI-nSpire CX CAS calculator is needed

NCAA OP

Advanced Placement Calculus is a one-year course that studies limits, derivatives, integrals and their applications. This course is designed to prepare students for the AP Calculus College Board Exam. College Credit may be obtained for a passing score on the exam.

BUSINESS STATISTICS

COURSE CODE: MATH 4740

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Algebra II



Business Statistics is an introduction to statistics and the application of statistics through finance, business decision making, and application. Students will meet Oklahoma math standards while using a variety of real world business contexts.

Northwestern Oklahoma State University

Dual Credit Opportunity

COLLEGE ALGEBRA

COURSE CODE: MATH 1513

LEVEL: 11, 12

CREDIT: 1

NCAA OP

The study of linear functions and graphs of equations. Includes operations with functions; the study of polynomial, rational, exponential, and logarithmic functions and their graphs; sequences and variation. This class may be paired with Honors College Prep Algebra III to be taken in the second semester.

SCIENCE

3 Credits Required

BIOLOGY I

COURSE CODE: SCI 5031
LEVEL: 9
CREDIT: 1
PREREQUISITE: None
NCAA OP

This course is the study of the processes and structural organization of living organisms and their relationship to the living and nonliving world. Some major topics include scientific method, cell structure and function, cell reproduction, DNA, RNA, protein synthesis, heredity/genetics, ecology, classification of living things, and diseases. Topics will be explored using science process skills including observation, data collection, mathematical analysis of data, constructing/ interpreting graphs and developing conclusion statements based on evidence. Other instructional methods include teacher presentation, reading of text, small and large group discussion, writing assignments, individual, and small group projects, and a combination of individual and small group work done in class.

PHYSICAL SCIENCE

COURSE CODE: SCI 5160
LEVEL: 10
CREDIT: 1
PREREQUISITE: Algebra I
NCAA OP

Physical Science is the study of the interactions of matter. Some major topics will include motion and forces, Newton's Laws of Motion, energy transformations, atomic structure/function, periodic patterns of the Periodic table, types of atomic bonding, and chemical interactions. Students will explore these topics through hands-on laboratory exercises, teacher demonstration, reading of related text, small and large group discussion, written assignments, and group work. There will be a focus on developing experimental design skills including identifying and manipulating experimental variables, construction and interpretation of data tables and graphs, and problem solving using basic mathematical applications.

EARTH SCIENCE

COURSE CODE: SCI 5061
LEVEL: 11
CREDIT: 1
PREREQUISITE: Biology I and Algebra I
NCAA OP

Earth Science is a study of the interactions of Earth systems including: Geology, Oceanography, Meteorology and Astronomy. This course will focus on the structure of the Earth and natural events that are changing Earth's surface. Topics will include structure of the Earth, rock cycle, earthquakes/volcanoes, plate tectonics, structure/processes of the atmosphere, weather patterns, natural disaster, sun-earth-moon system, solar system, stars, and galaxies. Methods of instruction may include lab work, group activities, research, lecture, discussion, reading/writing, and presentation.

CHEMISTRY I

COURSE CODE: SCI 5051
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Biology I, Grade of A, B, C in Algebra I
NCAA OP

This course involves the study of matter, its composition, and the changes matter undergoes. Major topics presented for study are matter and change, atomic structure, reactions, chemical bonding, kinetic molecular theory, stoichiometry, reaction heats, solutions, kinetics, equilibrium, and nuclear chemistry. Lab skills are developed which will assist students in any science course needed in general education requirements for colleges and STEM related fields.

ANATOMY / PHYSIOLOGY

COURSE CODE: SCI 5333
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Biology I
NCAA OP

This full year course will start with basic chemistry and medical terminology followed by a progression from the cellular level through the different levels of body organization. The major organ systems (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive) are covered not only in structure but also in function. Sensitive topics will be discussed including diseases and sexual reproduction. Identification of anatomical structures and laboratory work, including dissections, are required. This course is designed to help students prepare for higher education, to further their studies in an area of biological interest, or to enter a health-related profession.

BIOLOGY II

COURSE CODE: SCI 5032
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Biology I
NCAA OP

This class is a continuation of Biology I. Students will gain knowledge of microscope concepts. This class will cover topics such as protists, bacteria, worms, arthropods, fish, amphibians and mammals. Introduction to human anatomy and forensics may also be included. Several laboratory activities are performed so students will gain valuable hands-on experiences as the different topics are covered. It includes several dissections of representative specimens.

CHEMISTRY II

COURSE CODE: SCI 5052

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Chemistry I, A or B in Algebra I

NCAA OP

Students will take concepts learned in Chemistry I and apply them to new information learned in the areas of organic, nuclear, sample analysis and other types of reactions. Extensive labs and student responsibility for projects are involved. This will prepare students for Chemistry I in college.

PHYSICS

COURSE CODE: SCI 5211

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: A or B in Algebra I, A or B in Geometry, A or B in Algebra II

NCAA OP

Physics is a course that builds upon basic concepts taught in Physical Science. Students will be involved in a more advanced study of motion and forces, work, simple machines, energy, sound and light, electricity, and the application of mathematics to model and explain these concepts. Group work, labs, lecture, discussion, reading, writing, and presentation may be utilized in this course. Lab skills are developed which will assist students in any science course needed in general education requirements for colleges and STEM related fields.

FORENSIC SCIENCE

COURSE CODE: SCI 5334

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Biology I

NCAA OP

This course is for students interested in the study of criminal science or criminal justice. Topics will include history of forensics, legal search requirements, methods of searching a crime scene, techniques for collecting evidence, crime scene photography, hair and fiber evidence, handwriting analysis and forgery investigations, impression evidence, and DNA evidence. Sensitive materials will be discussed including blood pattern analysis, death investigations, firearm analysis and ballistics, and forensic psychology. Independent research will be required along with outside readings and writing crime scene data analysis reports.

AP BIOLOGY

COURSE CODE: SCI 5035

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Biology, A or B in Chemistry

NCAA OP

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.

ASTRONOMY/METEOROLOGY

COURSE CODE: SCI 5020

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Biology I

NCAA OP

One semester will be focused on Astronomy, and one semester will be focused on meteorology. Astronomy concepts covered include the stars, constellations, the solar system, lunar cycles, history of modern astronomy, telescopes, stellar spectra, star formation and death, galaxies, structure of the universe, asteroids, comets and meteorites. A limited number of night sky observations are a required component of this course. Meteorology concepts include natural atmospheric phenomena such as thunderstorms, tornados, hurricanes, atmospheric energy, seasons, light, color and optics, humidity, condensation, air pressure, clouds, wind, air masses and fronts. Weather forecasting will be an integral part of this semester.

AP ENVIRONMENTAL SCIENCE

COURSE CODE: SCI 5121

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Biology, Chemistry, Algebra I

NCAA OP

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. This rigorous science course stresses scientific principles and analysis and includes a laboratory component. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Northwestern Oklahoma State University

Dual Credit Opportunity

GENERAL BIOLOGY

COURSE CODE: BIOL 1114

LEVEL: 12

CREDIT: 1

NCAA OP

General Biology introduces various topics in biological science including basic chemistry; cellular biology; studies of animals, plants, protozoans, and fungi; human biology; genetics and heredity; and environmental/population studies. Lab is required to receive full credit.

GENERAL PHYSICAL SCIENCE

COURSE CODE: PHYS 1014

LEVEL: 12

CREDIT: 1

NCAA OP

An introduction to the fundamentals of physical science with emphasis in physics and Chemistry. Course includes applications to other physical sciences. Lab is required to receive full credit.

HISTORY

3 Credits Required

OKLAHOMA HISTORY

COURSE CODE: SS 5615
LEVEL: 9
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one-semester class emphasizes the contributions of all ethnic groups in the social, economic, and political development of the state. The unique role of the American Indian is a major focus of the class including a study of tribal variations in customs and practices. Students also become familiar with the geography of Oklahoma and the developments since statehood.

This is a one semester course paired with Freshman Orientation.

POLITICAL SCIENCE

COURSE CODE: SS 5770
LEVEL: 10
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This course will give students an analytical perspective on government and politics in the United States, including both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will also become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes

U.S. HISTORY

COURSE CODE: SS 5410
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This course is a general survey course of the history of the North American continent, beginning from the end of Reconstruction to the present day. This course will be geared around primary documents, lectures, critical thinking, and analysis, as well as classroom discussions and debates. This course aims at preparing the students for college by teaching them effective note-taking techniques, as well as the ability to organize information from lectures to construct a timeline of relevant events in American history. The first semester includes Native American resistance, early civil rights movements, and the Progressive era. The second semester is spent primarily in the twentieth century, with a study of how the major events of this era, (The Great Depression, World War II, the Cold War, Civil Rights, Vietnam, the Gulf War, the War on Terror), reflect and shape the position of the United States in the world today.

AP U.S. HISTORY

COURSE CODE: SS 5415
LEVEL: 11
CREDIT: 1
PREREQUISITE: None
NCAA OP

This two-semester course is designed to be the equivalent of an introductory college course and prepare the student to take the AP Exam in May. It presents a survey of United States History from colonization to the present. The student is expected to display a requisite grasp of the assigned reading, competent writing skills, an ability to discern various points of view and understand its impact on interpretation, essential skills in handling and defending a position, and the capability of making judicious analyses and evaluations of primary documents.

U.S. GOVERNMENT

COURSE CODE: SS 5541
LEVEL: 10, 12
CREDIT: 0.5
PREREQUISITE: None
NCAA OP

This one semester course that studies the extraordinarily dynamic American system of government. Students will study why the government is the institution through which society makes and enforces its public policies. The course will encourage active participation in the process of government and citizenship by engaging students in topics and issues that are relevant to their lives. The course will provide a strong foundation in the origins and principles of American government. We will emphasize multiple viewpoints to get students thinking and making decisions about real issues. We will explore controversial issues through case studies and special features that promote active citizenship.

Northwestern Oklahoma State University

Dual Credit Opportunity

US HISTORY SINCE 1877

COURSE CODE: HIST 1493
LEVEL: 12
CREDIT: 0.5
NCAA OP

From 1877 to present. Post-reconstruction; industrialism; immigration; reform movements; race, gender and ethnicity; cultural conflicts; the welfare state; and international relations.

BUSINESS, MANAGEMENT, INFORMATION TECHNOLOGY EDUCATION

FUNDAMENTALS OF TECHNOLOGY

COURSE CODE: TECH 8101
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: None

OP



This course will provide students with the fundamental concepts, principles, and ideas needed to understand how a business is operated and managed in a rapidly changing global environment, which is needed for success in careers in business related fields. This course also provides job readiness skills and soft skills that are critical for success in any workplace setting.

AP COMPUTER SCIENCE

COURSE CODE: TECH 2535
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology

OP



Students will be able to demonstrate an understanding of java programming languages by implementing and writing programs employing various techniques.

DESKTOP PUBLISHING (YEARBOOK)

COURSE CODE: TECH 8145
LEVEL: 9, 10, 11, 12
CREDIT: 1
PREREQUISITE: Teacher Approval

OP



The primary objectives of this course are instruction in publication, production, and completion of the yearbook. The goal of the yearbook is that it represents, as completely as possible, a history of each school year from first day to last. Students will develop skills in leadership, copywriting, on-line publishing, advertising, marketing, and sales. Yearbook students will learn current publication trends and attend workshops in the summer and during the academic school year. Students are also expected to invest a substantial amount of time outside of school meeting deadlines, attending activities for the purpose of taking pictures, learning the maintenance and use of the high-level photographic equipment, communicating with local businesses, and attending summer training. producing and computer editing. Students will receive training in photography and videography techniques to create various projects.

DIGITAL EDITING AND PRODUCTION PHOTOGRAPHY

COURSE CODE: TECH 8151
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology

OP



In this course, students will acquire skills in digital photography. Additionally, students will understand certification standards and copyright basics.

ENTREPRENEURSHIP

COURSE CODE: ELE 8616
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology



This course will provide students with fundamental concepts, principles and ideas needed to understand the basics of entrepreneurship in business management. Skills demonstrated are as follows: develop a Business Plan, Identify Marketing Needs, Insurance Concepts pertaining to a business, how to market a business, maintain records and accounting processes, manage finances, integrate technology into the business functions, apply legal, ethical and social obligations, and analyze the growth of today's marketplace.

OFFICE MANAGEMENT/INTRODUCTION TO ENTREPRENEURSHIP

COURSE CODE: TECH 8105
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Fundamentals of Technology



This course helps students discover what an entrepreneurial career entails. Students will look at the relationship between entrepreneurship and business skills and learn about career opportunities and skills needed to become an entrepreneur.

BUSINESS AND MARKETING COMMUNICATIONS

COURSE CODE: ELE 8611
LEVEL: 10, 11, 12
CREDIT: 0.5
PREREQUISITE: Fundamentals of Technology



This course applies marketing skills developed through a variety of informal and formal experiences. The performance-based course will emphasize effective interpersonal and team building skills along with written and oral communication techniques. Technology will be used to create and deliver presentations, enhance problem solving situations, and practice critical thinking and decision-making. Job interviews, research paper, and/or projects will culminate this course.

SPORTS AND ENTERTAINMENT MARKETING

COURSE CODE: ELE 8610

LEVEL: 10, 11, 12

CREDIT: 0.5

PREREQUISITE: Fundamentals of Technology



This is a specialized course designed for students with a career interest in the sports and entertainment industry. Instructional areas will include: orientation to the sports and entertainment industry, economics, decision-making, event marketing, sales and sales promotions, event executions, legal aspects/contracts, and career opportunities. Classroom instruction will be reinforced through the use of outside lectures, case studies, field trip experiences, job shadowing, current periodicals, computers and software, in-house projects, and constructive/discovery learning. Students will develop leadership traits and identify their leadership potential through participation in the DECA (an association of marketing students) student organization.

FINE ARTS

ART I

COURSE CODE: ART 2808

LEVEL: 9, 10

CREDIT: 1

PREREQUISITE: None

OP



Please note that this course meets for a Full Year. This course is the beginning level art course needed to meet the prerequisite for Art II. Students will learn basic drawing concepts including light and shade, line quality, rendering of form, composition, and illusion of depth. Students will learn to manipulate formal qualities, design, and concepts to create original works of art. Focus will be on observational drawing, articulating the principles of design through organized use of the elements. The course also includes art history, sketchbook development, and creative expression.

ART II

COURSE CODE: ART 2809

LEVEL: 10, 11, 12 or Teacher Approval

CREDIT: 1

PREREQUISITE: Art I

OP



This course is designed for all students who wish to further their artistic skills and knowledge of the arts and who have a serious interest in the fine arts. During the first semester, students continue the study of basic drawing, composition, and painting. The elements and principles of design also are covered. During the second semester, students continue work from the first semester as well as work with additional media and techniques. Art history and aesthetics are an important part of this course. Students are expected to work 1-2 hours per week outside of class and become independent in their pursuit of art.

ART III

COURSE CODE: ART 2810

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Art I, Art II

OP



This course is designed for students who are serious about and have demonstrated considerable ability in the visual arts. Students continue to review, build, and expand upon the foundation laid in Art I and Art II. In addition, the course provides an exploration of media and techniques for the advanced student. Students are expected to work 2-3 hours per week outside of class and become increasingly independent in their pursuit of art.

RACER BAND

COURSE CODE: ART 3002

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None

OP



Band is an OSSAA Activity. Students must meet grade eligibility requirements each week to participate. Students will perform concerts, march at football games, and have opportunities for concerts and contest performances.

HONOR BAND

COURSE CODE: ART 3003

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: Teacher Approval

This elective is for students grades 10-12* who are currently in the Racer Band program that would like extra instruction during the school year. The focus of this class is to help students prepare for auditions, chair tests, performance, competitions and/or college scholarship auditions but is not limited to these specific goals. Students will be given 1-on-1 instruction and they will also have monitored practice time with goals, assignments and expectations according to their playing level and musical priorities. In addition, basic music theory will be covered throughout the school year. Each student is required to participate in at least one honor band audition in the fall semester and play in a solo or ensemble in the spring semester. All instructional material will be provided however students may elect to purchase additional books or sheet music.

PREP BAND

COURSE CODE: ART 3001

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None

The intention of this class is to prepare students to join the High School Racer Band. The focus of this class is to teach students who have never been in band before a band instrument. Students will learn about the fundamentals of their instrument and move at a quick pace to get them prepared to join the high school band. Instruction will be presented in both lecture and guided practice. Students will be given the opportunity to try all the different instruments before their main instrument is selected. Students and their families will need to supply their own instruments that are in working condition. Rental and purchase options will be discussed in class. However, there is a small inventory of school-owned instruments for students in families with financial needs.

RACER CHOIR

COURSE CODE: ART 3081

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None

OP



Students in choir will study and sing a wide variety of choral literature from different time periods and styles, including music of today. Students will acquire appropriate performance and rehearsal skills necessary to develop a choral ensemble including vocal and choral technique, music reading skills, sight-reading, solfege, musicianship and performance skills. Concert and contest performances outside of class time are a class requirement and a percentage of the grade. Students are required to purchase a choir t-shirt and to meet other special clothing requirements for performance. Extra rehearsal outside of the school class period may be scheduled for performance preparation. Previous participation in choir is not required.

SELECT/AUDITIONED CHOIR

COURSE CODE: ART 3082

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: Student Tryout

OP



Students in Select Choir will study, learn, rehearse, and perform musical arrangements designed for a small, selected group of students. Students gain an appreciation for stage presence, teamwork and collaboration, and performance arts. Students are required to make purchases involving their stage attire and are also required to compete and perform outside of class. Students are selected for Select Choir through a scheduled spring audition. Those that make the choir will be enrolled in the course for the following school year. Students in the Select Choir are also required to meet the curriculum and performance requirements present in the Choir Course Description above.

MUSIC TECHNOLOGY

COURSE CODE: ART 3052

LEVEL: 9, 10, 11, 12

CREDIT: 0.5

PREREQUISITE: None



This course is designed to allow students to explore audio design, music composition, audio manipulation, and music production. Students will be able to express creativity using music notation software, music production software, and recording equipment. Students will develop the capability to work with multi track sessions, record and edit audio, and learn about copyright laws. The overall course supports student appreciation for music and their basic understanding of characteristics of music. This is a partner class with Songwriting. Students will spend one semester in each class. No previous music experience is required.

THEATRE ARTS

COURSE CODE: ART 2893

LEVEL: 9, 10, 11, 12

CREDIT: 1, Eligible for a Fine Arts Credit

PREREQUISITE: None

OP



This course is designed for students with little or no theatre experience and promotes enjoyment and appreciation for all aspects of the dramatic arts. Classwork focuses on the exploration of theatre literature, performance, historical and cultural connections, and technical design and management requirements within theatre. Improvisation, creative dramatics, informative speech skills, and beginning scene work are used to introduce students to performing and public speaking.

ADVANCED THEATRE ARTS

COURSE CODE: ART 2894

LEVEL: 10, 11, 12

CREDIT: 1, Eligible for a Fine Arts Credit

PREREQUISITE: Completion of Theatre Arts

OP



Advanced Theatre is a full-year art elective that serves to provide intensive training for the serious theatre student. Students must have completed Theatre Arts or a Theatre I course equivalent because this course will extend and advance their knowledge and skill sets on basic theatre knowledge, performance technique, script/character analysis, playwriting, theatre history, production, and design knowledge/skill sets. Students will be required to go to drama competitions and participate in some way with a Newcastle Drama Department production.

THEATRICAL DESIGN AND PRODUCTION

COURSE CODE: ART 2856

LEVEL: 9, 10, 11, 12

CREDIT: 1, Eligible for a Fine Arts Credit

PREREQUISITE: None



The Theatrical Design and Production course is designed for students with little to no experience with theatre. Students will study costume design, set design, lighting design, and sound design. Students will also study theatre safety, production management, and the basic stage technology. Students will evaluate how design supports storytelling and performances, but this is not an acting class.

AGRICULTURE

INTRODUCTION TO AGRICULTURE

COURSE CODE: ELE 8004
LEVEL: 9
CREDIT: 1
PREREQUISITE: None



This course is a ninth-grade course that lays the foundation for introduction into one of the seven career pathways. Content includes animal science, plant and soil science, agribusiness and economic principles, and agricultural mechanics. This course is a prerequisite to all upper-level agricultural education courses. *Owning and/or showing an animal is NOT a requirement.*

INTRODUCTION TO AG COMMUNICATIONS

COURSE CODE: ART 4011
LEVEL: 10, 11, 12
CREDIT: 1, Eligible for a Fine Arts Credit
PREREQUISITE: Introduction to Agriculture



This is a one-credit course designed for students with an interest in agricultural communications and leadership. Content includes principles, concepts, and theory of business writing, journalistic writing, graphic design, creating presentations, creating and delivering presentations, photojournalism, new media and broadcasting media. The course is centered on linking communications with agriculture application. The course is structured to make learning about communications and leadership fun. There is an emphasis on participation in the student organization, FFA, through career development activities related to communications and leadership that are generated by being a part of the student organization. Students will also develop record keeping skills through the requirement of establishing and maintaining a supervised agricultural experience program (SAE). *Owning and/or showing an animal is NOT a requirement*

AG POWER I

COURSE CODE: ELE 8004
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Introduction to Agriculture



This is a yearlong program that prepares students in metal fabrication, servicing of equipment, machinery, and structures. Students also work with ARC, MIG, and SMAW welding equipment, concrete, wood, electricity, personal safety, tool ID, use power tools, and measuring devices. Upon successful completion of this course, students will have developed basic welding skills needed for careers as a welding technician, machinist, construction contractor, and other related fields. Supervised agricultural experiences as well as FFA activities are an integral part of the instructional process. *Owning and/or showing an animal is NOT a requirement.*

AG POWER II

COURSE CODE: ELE 8010
LEVEL: 11, 12
CREDIT: 1
PREREQUISITE: Introduction to Agriculture, Ag Power I



Content includes meaning and use of agricultural power, personal and occupational safety; kinds, uses, and maintenance of agricultural tractors; kinds and uses of crop production equipment (including tillage, planting, application, and harvesting equipment); internal combustion engine principles and maintenance, including those using gasoline, diesel, and alternative fuels; tractor power trains; electronics, including sensors, controllers, and onboard computers; and electric monitors. Upon successful completion of this course, the students will have developed an understanding of welding construction and power systems in agriculture industries and the skills to pursue a career pathway in Agriculture, Food, and Natural Resources. Supervised Agricultural Experience and FFA required. *Owning and/or showing an animal is NOT a requirement.*

LIVESTOCK PRODUCTION

COURSE CODE: ELE 8013
LEVEL: 10, 11, 12
CREDIT: 1
PREREQUISITE: Introduction to Agriculture



This course is designed to offer students advanced knowledge in livestock agriculture. Content includes livestock species, biology of species, genetics and breeding, nutrition and feeding, health, and disease management. Supervised Agricultural Experience and FFA required. *Owning and/or showing an animal is NOT a requirement.* (This course is not offered every year.)

AG LEADERSHIP & PERSONAL DEVELOPMENT

COURSE CODE: ELE 8023
LEVEL: 11, 12
CREDIT: 1
PREREQUISITE: Introduction to Agriculture, Teacher Approval



Course content will include leadership theory and attributes, developing leadership skills, conflict resolution, planning and carrying out meetings, using parliamentary procedure, organizing communication campaigns, managing tasks and teams, loyalty, and ethics. This course emphasizes the FFA and career development activities related to leadership that are generated by being a part of the student organization. (This course is not offered every year.)

FAMILY AND CONSUMER SCIENCE

ADULTING 101 (FACS BASICS)

COURSE CODE: ELE 3421

LEVEL: 9

CREDIT: 1

PREREQUISITE: None



This course is designed to provide students with basic information and skills needed to function effectively within the family and a changing, complex society. Emphasis is given to the development of competencies related to relationships, communication, and conflict resolution, caring for children, designing personal space, basic sewing skills, clothing selection and care, promoting good health and nutrition, food selection and preparation, and career exploration. Upon completion of this course, the student will have developed basic life skills that promote a positive influence on the quality of life. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course. Students will be discussing current and relevant issues to today's students that could be considered sensitive in nature

Note: FACS Basics taken prior to 9th grade will be recorded on the student's transcript and will be credited toward high school elective graduation requirements. It will count toward the high school grade point average. If the course is taken prior to 9th grade it cannot be repeated for a higher grade.

MARRIAGE AND PARENTING

COURSE CODE: ELE 3410

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Adulting 101



This course examines how relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers. In addition, students will participate in research on parenting, pregnancy, and early childhood development. *(This course is not offered every year.)*

Note: Upon completion of this course students are eligible to obtain a babysitting certificate through the Red Cross.

CULINARY ARTS

COURSE CODE: ELE 8426

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Adulting 101



A laboratory course in which students use nutrition knowledge to make informed choices to promote lifetime wellness, the importance of healthy eating and physical activity across the life span. Students will learn safe food handling practices, healthy menu planning and food preparation techniques, and how to recognize sources of stress and healthy strategies to reduce the impact of stress on total wellness. Needs of the competitive athlete are also addressed. *(This course is not offered every year.)*

Note: Upon completion of this course students are qualified to obtain a food handlers permit.

FACS ED CAPSTONE

COURSE CODE: ELE 8404

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: Adulting 101, Teacher Approval



This course will walk seniors through post-secondary options of college and career and personal finance. Students will perform in-depth career exploration, choose an industry they can envision a future career in, and develop a plan to pursue their goal in that industry. Students will also research colleges and how to apply to those colleges as well as apply for grants and financial aid. This course also explores the financial obligations and decisions that await them after high school and will cover the Financial Literacy requirements needed to graduate. *(This course is not offered every year.)*

WORLD LANGUAGES

SPANISH I

COURSE CODE: LANG 3161

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None

NCAA OP



This class is an introduction to the Spanish language and culture. Hispanic culture and topics will be discussed throughout the course. The four basic skills of listening comprehension, reading, speaking, and writing will be acquired. Students will learn and apply vocabulary and verbs essential to their progression into Spanish II. Students will also engage in guided conversations, activities, and translations.

Note: Spanish I taken prior to 9th grade will be recorded on the student's transcript and will be credited toward high school elective graduation requirements. It will count toward the high school grade point average. If the course is taken prior to 9th grade, it cannot be repeated for a higher grade.

SPANISH II

COURSE CODE: LANG 3162

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: A, B, or C in Spanish I

NCAA OP



This class is an expansion of Spanish I. Students will be using more complex grammatical structures in writing as well as more elaborate and intricate conversations and discussions in Spanish. Amongst such structures should be the use of: reflexives stem changing verbs; past, present and future tenses. Conditional and present progressive tenses will also be reviewed. Cultural awareness about the different Latin American countries and Spain will be promoted and explored.

SPANISH III

COURSE CODE: LANG 3163

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: A, B, or C in Spanish II

NCAA OP



In this expanding engagement with Spanish, students deepen their attention on four key skills in foreign language acquisition: listening comprehension, speaking, reading and writing. We will improve these skills through significant works of literature, film and art, and responding to the works orally or written. The course will also build off of what was learned in Spanish 2 in grammar and will dive deeper into the Spanish tenses and uses, i.e.; imperfect, subjunctives, formal commands and future tenses. New vocabulary will also be instructed. All of these topics will be reinforced through numerous interactive activities, games, reading and listening assessments, etc. And finally, students will discover and learn more about the culture of Spanish speakers through multimedia and speaking presentations and written work. This course has been aligned to national standards as set forth by ACTFL.

SPANISH IV

COURSE CODE: LANG 3164

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: A or B in Spanish III

NCAA OP



This course is an enhanced continuation of Spanish III (grammar, vocabulary, culture, etc. will be expanded). The student will continue to develop stronger skills in the four areas of language study (reading, writing, speaking, and listening).

ATHLETICS & FITNESS

COMPETITIVE ATHLETICS

COURSE CODE: See Below
 LEVEL: 9, 10, 11, 12
 CREDIT: 1
 PREREQUISITE: None

School sponsored athletics. Students should choose this class if they are participating or serving as a manager in any of the following athletic activities: Baseball, Basketball (Boys/Girls), Cheer, Cross Country (Boys/Girls), Football, Golf (Boys/Girls), Soccer (Boys/Girls), Softball, Track, Volleyball, Wrestling.

Note: Students only enrolling in a one semester course must select another one semester course.

Sport	Course	Length
Cheer	80216	2 Semesters
Football	80217	1 or 2 Semesters
Cross Country	80202	1 Semester (Fall)
Fast Pitch Softball	80203	1 Semester (Fall)
Volleyball	80204	1 or 2 Semesters
Basketball	80205	2 Semesters
Wrestling	80207	2 Semesters
Baseball	80209	2 Semesters
Golf	80210	1 Semester (Spring)
Soccer	80212	1 or 2 Semesters
Track	80214	1 or 2 Semesters
Swim	80208	2 Semesters AD Approval Required
Sport	Course	Length

STRENGTH AND CONDITIONING

COURSE CODE: ELE 3320
 LEVEL: 9, 10, 11, 12
 CREDIT: 1
 PREREQUISITE: For competitive athletes only



This course is designed to improve students physically in preparation for all sports or for self-improvement. This course includes techniques and instruction in conditioning, strength training and overall athletic performance. Students enrolled in competitive athletics will have the opportunity to maintain their weight training during the school period.

Note: This is not a mandatory class to participate in competitive athletics.

LEADERSHIP

LEADERSHIP I

COURSE CODE: ELE 27601

LEVEL: 9

CREDIT: 1

PREREQUISITE: None



Students will gain a greater understanding of how to implement leadership concepts and qualities, with an emphasis on developing their personal leadership skills. They will obtain hands-on experience in leadership through involvement in the student body and development of school and community programs, activities and events. Students will learn about and take part in the governance process of the school and community. They will display the appropriate attitude and responsibilities of leaders. Students will promote initiative, leadership, democracy and school spirit. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP II

COURSE CODE: ELE 27602

LEVEL: 10

CREDIT: 1

PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership II. *All STUCO Officers and Class Officers are required to enroll in this course*

LEADERSHIP III

COURSE CODE: ELE 27603

LEVEL: 11

CREDIT: 1

PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership III. *All STUCO Officers and Class Officers are required to enroll in this course.*

LEADERSHIP IV

COURSE CODE: ELE 27604

LEVEL: 12

CREDIT: 1

PREREQUISITE: None



Students will expand on their leadership skills learned in Leadership IV. *All STUCO Officers and Class Officers are required to enroll in this course.*

EVENT PLANNING

COURSE CODE: ELE 2775

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: Teacher Approval Needed



All major school events, such as student socials, homecoming, dances, public relations, ecology and community service drives are coordinated through this class.

FRESHMEN SUCCESS

COURSE CODE: PFLCPR

LEVEL: 9

CREDIT: 0.5

PREREQUISITE: None

Students will complete the personal financial literacy, HIV and CPR requirements from the Oklahoma State Department of Education. Each week students will complete a component of SAT preparation. Career exploration and personal leadership will be focal components of this class. Students will begin to develop their ICAP Portfolio.

Senior Capstone

COURSE CODE:

LEVEL: 12

CREDIT: 0.5

PREREQUISITE: None

This course will walk seniors through post-secondary options of college and career and personal finance. Students will perform in-depth career exploration, choose an industry they can envision a future career in, and develop a plan to pursue their goal in that industry. Students will also research colleges and how to apply to those colleges as well as apply for grants and financial aid. This course also explores the financial obligations and decisions that await them after high school and will cover the Financial Literacy requirements needed to graduate.

Note: This course is required for graduation.

LANGUAGE ARTS ELECTIVES

CREATIVE WRITING

COURSE CODE: ELE 4301

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: None

NCAA



This course will focus on expressive writing in many different forms. Students will have the opportunity to explore several types of poetry and prose styles, as well as responding to literature, art mediums, quotes, and music. Originality and writing that emphasizes thought will be expected. Strategies to avoid writer's block and new ways to uncover writing ideas will be studied. Peer reviews and sharing ideas are essential to this course.

Note: This course is an elective course and is not an additional core unit for the College Prep Curriculum. This course may be taken more than once.

SOCIAL RELATIONS AND COMMUNICATIONS

COURSE CODE: ART 4211

LEVEL: 10, 11, 12

CREDIT: 1, Eligible for a Fine Arts Credit

PREREQUISITE: None



Our introduction to 'Social Relations and Communications' class is a course that features communication through engagement and collaborative tools and tasks, while focusing on the social relations of groups of people. Students learn about the components, origins and characteristics of communication through interactive activities, viewing and discussing speeches, working in groups and pairs, and thought-provoking lectures. Students will utilize critical thinking skills to create productive critiques on examples of communication and social relationships. Through communication and social relationships, students become more effective at meeting others, developing critical thinking skills, creating persuasive oral and written messages, and more. By improving communications, students will not only be learning valuable life skills, they'll also be strengthening skills for future professional purposes.

Note: This is not a Speech/Debate Class, and while we will discuss ideas as a regular classroom would, there will NOT be single person speeches given.

CHILD DEVELOPMENT

COURSE CODE: ELE 8471

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None



Child Development focuses on the physical, social, emotional, and cognitive growth and development of children. Emphasis is placed on helping students acquire knowledge and skills essential to the care and guidance of children. Students learn to create learning environments that promote optimal development for children. Students will engage in using children's literature, developmental play toys, and mock case studies to enhance learning.

Note: Students will have access to children's literature, picture books, short chapter books, and developmental play toys in class.

ADDITIONAL ELECTIVES AND INTERNSHIP

RACERCONNECT INTERNSHIP

COURSE CODE: INTERJR (Junior), INTERSR (Senior)

LEVEL: 11, 12

CREDIT: varies by numbers of class periods interning

PREREQUISITE: Counselor Approval



This class utilizes classroom instruction and on-site intern experience. Upon completion of this course you have a better understanding of employment soft skills and specific career options. Traditional letter-grades will be assigned for this class, grades are based upon work attendance and performance reviews, classroom performance during instructional time and weekly journals and a final project. Times and credit for this class vary based on the student's schedule and the amount of time spent at the worksite.

AVIATION I

COURSE CODE: ELE 8874

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None



This course is for students interested in learning about flight, unmanned aircraft systems (drones) and other important STEM topics. Students enrolled will study aviation history, aviation safety, and the systems of flight. Aviation will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will also learn about the wide variety of exciting and rewarding careers available to them.

AVIATION II

COURSE CODE: TECH 8875

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Aviation I

OP



In this course, students will take an in-depth look at the systems that make manned and unmanned aircraft work. Beginning with aircraft propulsion, students will learn about the different types of engines that produce thrust to propel an aircraft or UAS. They will go on to explore other key aircraft systems, including fuel, electrical, landing gear, and environmental. In order to fly an aircraft safely, students must also learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This course also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Finally, students will complete a project of designing their own airplane, and will explore the benefits of mentorship and work-based learning experiences.

AVIATION III

COURSE CODE: TECH 8876

LEVEL: 11, 12

CREDIT: 1

PREREQUISITE: AVIATION I & II

OP



Student will use technology to learn the foundations of both manned and unmanned aviation and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

ENGINEERING ESSENTIALS

COURSE CODE: ELE 8710

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None

OP



Engineering Essentials offers a multidisciplinary approach to teaching and learning foundational concepts of engineering practice, providing students opportunities to explore the breadth of engineering career opportunities and experiences and solve engaging and challenging real-world problems.

INTRODUCTION TO ENGINEERING DESIGN

COURSE CODE: ELE 8711

LEVEL: 10, 11, 12

CREDIT: 1

PREREQUISITE: Engineering Essentials

OP



Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software.

**TEACHING AND LEARNING IN
ELEMENTARY/MIDDLE/SECONDARY EDUCATION
[TEACHING CADETS]**

COURSE CODE: ELE 8459

LEVEL: 9, 10, 11, 12

CREDIT: 1

PREREQUISITE: None



Our Teaching and Learning in Elementary/Middle/Secondary Education class prepares students as Teacher Cadets. The class is an innovative hands-on course designed for high school students who are interested in becoming teachers or have a job/career working with children where they will gain experiences in a classroom. These experiences will enable them to make informed decisions regarding such careers. Students will experience and explore the professional roles of educators, effective teaching practices, and develop an understanding of school structure.