



NORTHERN UTAH ACADEMY

FOR MATH, ENGINEERING & SCIENCE

Course Guide and Class Descriptions

2022-2023

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Mission Statement

“Our Mission is to be the school of choice for those seeking a rigorous and supportive early college experience on a university campus”

NUAMES Policy & Grievance Procedures

NUAMES is committed to assure compliance with:

- Title IV of the Civil Rights Act of 1964, as amended, which prohibits discrimination on the basis of race, color, or national origin.
- Section 504 of the Rehabilitation Act of 1973 as amended, which prohibits discrimination on the basis of handicap.
- Title IX of the Education Amendments of 1972, as amended, which prohibits discrimination on the basis of sex in educational programs.
- The Age Discrimination Act of 1975, as amended, which prohibits discrimination on the basis of age. All regulations, guidelines, and standards lawfully adopted under the above status by the United States Department of Education.

NUAMES does not discriminate on the basis of race, color, sex, national origin, age or disability in its programs and activities. Title IX Coordinator: Nate Taggart, 801-395-3358. 2750 University Park Blvd., Layton, UT 84041. For discrimination questions regarding disability, section 504 coordinator is Dawn Winter, 801-395-3355. 2750 University Park Blvd., Layton, UT 84041. For assistance related to civil rights, you may contact the enforcement office serving our state. The OCR office for Utah is located at: Office for Civil Rights-Denver Office, U.S. Department of Education, 1244 Speer Blvd., Suite 310, Denver, CO 80204-3582. Phone 303-844-5695. Fax: 303-844-4304. Email: OCR.Denver@ed.gov

Any grievance regarding the above statements should be directed to:

Northern Utah Academy for Math, Engineering, and Science
Attn: Nate Taggart
2750 N. University Park Blvd.
Layton, UT 84041
(801) 395-3358

Students needing an ADA accommodation, please contact Dawn Winter at dwinter@dsdmail.net or by phone 801-395-3350. We will make every attempt to provide reasonable accommodations.

NUAMES Counselors

NUAMES counselors are dedicated to assisting all students in the development of self-knowledge, interpersonal relationships, educational and occupational exploration. They also offer help in career planning, post-secondary education planning, scholarships and financial aid information.

Counseling Center Hours - 7:30am-3:30pm

Sophomores - Susan Burns 801-626-8600

Jrs/Srs - Danae Meyerhoffer 801-626-8599

NUAMES counselors have been trained to provide support to students in meeting and overcoming personal issues such as grief, stress, conflict resolution as well as crisis intervention.

See [counseling website](#) for the most current information.

Weber State Dual Enrollment Advisors

Weber State University has advisors available to assist NUAMES early college students and/or those seeking a *Certificate of Completion* with college general studies advising. NUAMES students can contact the WSU advisors assigned to assist high school students for information regarding the Early College Program and other opportunities.

Course Requests and Schedules

NUAMES wants to ensure all students take classes that provide a rigorous grade level learning, meet high school graduation requirements, prepare for future college and career programs, and provide an opportunity to complete college courses that meet general studies requirements.

1. Student course requests are completed online in the spring. It is critical that students register for 8 classes and select at least 2 alternate courses. COURSE WILL ONLY BE OFFERED IF MINIMUM ENROLLMENTS ARE MET.
2. Student Schedules will be available in the first part of August. Schedule change labs will be held before school starts. All schedule changes must be made prior to the designated deadline, before the start of each semester or a \$10 fine will be assessed.
3. Students must be registered for a full schedule that can include NUAMES classes, Early College classes at WSU, and DAVIS Tech/Ogdent Tech programs.
4. NUAMES follows an A/B day schedule format. Periods 1,2,3, and 4 are taught on "A" Day and periods 5,6,7, and 8 are on "B" day. All classes are 90 minutes long.
5. Every Friday is C Day and is for the purpose of administering tests and assessments, providing lab and hands on learning, and providing extra instruction and intervention for struggling students. Attendance at C Day is REQUIRED for ALL students.

NUAMES Graduation Requirements

All students graduating from the Northern Utah Academy for Math, Engineering and Science must:

- Earn 27 total credits to graduate from NUAMES. Career assessment and guidance is offered to students to assist them in designing a course of study that will meet their needs and College and Career goals.
- NUAMES Students must complete **4 years of Mathematics, 4 years of Science and 2 years of Engineering**, above and beyond the Utah State Graduation Requirements.
- Students must complete the **Senior Capstone Project** and create a **Portfolio**. See description of requirements at www.nuamescounseling.com
- All students will participate in a **NUAMES Capstone Mentoring Class**. This class meets four times throughout the year and is designated as a zero period class.
- Juniors and Seniors are required to attend at least 3 **Seminars** per semester. See description of requirements at www.nuamescounseling.com

GRADUATION REQUIREMENTS:

<u>REQUIRED COURSES</u>	<u>CREDIT</u>	<u>CLASSES SATISFYING REQUIRED CREDITS</u>
Language Arts	4 credits	One Language Arts course each year (9th, 10th, 11th, 12th)
Science	4 credits	Life Science and Physical Science courses
Mathematics	4 credits	4 years of math courses
Social Studies	3 credits	9th - World Geography (.5); 10th - World History or AP European History (1.0); 11th - US History or CE History (1.0); 12th - US Gov or CE Us Gov
Engineering	2 credits	2 years of Engineering or Computer Science courses
Physical Education	1.5 credits	Fit for Life - (.5) No Substitutions Any PE course or Participation in High School Sports (1.0)
Fine Arts	1.5 credits	Art, Dance, Theater, Photo, Music and WSU Creative Arts courses
Health	.5 credit	Health or Intro. to Health Sciences
Digital Literacy	.5 credit	Exploring Computer Sciences, Business Office Specialist, Computer Science Principles, Computer Programming
Financial Literacy	.5 credit	General Financial Literacy
Elective Credit	5.5 credits	Additional Classes
TOTAL CREDITS	27 CREDITS	

Make-Up Credit

1. Correspondence Courses - Any courses taken through correspondence must be from an accredited institution and approved by the counselor before they are taken. The most common site for taking courses through this option is BYU independent study courses for high school students. Learn more about these courses at elearn.byu.edu.
2. NUAMES Online – Online courses taught through NUAMES, by NUAMES instructors. These courses can be used for original as well as make up credit. To access these courses, please make an appointment to see your counselor.
3. Private Accredited Programs - Students can earn make-up credit through private programs like Sylvan Learning Center or Northridge Learning Center. Prior approval through the counselor is required for credit from these sources to be accepted. Tuition is charged.
4. Students needing to make-up citizenship credit must meet with their counselor. Students can work under the supervision of the teacher who gave the U or other school personnel, at any volunteer organization or at a site that is pre-approved by the counselor. Forms are available in the Office. Four (4) hours of volunteer service is required to make-up one U (unsatisfactory citizenship). There is a \$10 posting fee per “U”.
5. Home school credit must be done through an accredited institution on an official transcript for NUAMES to accept the credit. If 9th grade credit has not been done through an accredited institution, see high school administration.

****SENIORS: All make-up credit must be completed by May 1, 2023.***

Fees and Waivers

Fee Schedule

In accordance with Utah State Law, the Northern Utah Academy for Math, Engineering, and Science Board of Directors annually reviews all fees charged students for various activities, classes, mailings, yearbooks, etc. This information will be published and made available to parents prior to the time of registration this spring. The State of Utah requires that all students who take Concurrent Enrollment Courses pay \$5 per credit partial tuition. This will be paid directly to the Higher Education Institution offering the concurrent enrollment credit.

Fee Waivers

No student will be denied the opportunity to participate in school activities and educational programs because of the inability to pay fees, deposits, or other charges. Students and/or parent(s) who need assistance should contact the office for assistance on fee waivers.

Transportation

- NUAMES provides students with a UTA bus and train pass annually.
 - NUAMES will NOT be responsible for transporting or arranging for the transport of students who elect to take classes at schools other than NUAMES. The parent/guardian of such students will be solely responsible for the transport of their students to and from each school.
 - NUAMES is not responsible for transportation to and from WSU DAVIS or the UTech Colleges.
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NUAMES Citizenship Requirements

Graduation requirements for NUAMES students include satisfactory citizenship and adherence to the rules and policies of the school. Any violation of those rules and/or policies may result in a student earning a U in citizenship. Students receiving a U in citizenship must clear the U before they will be allowed to graduate from NUAMES. Typically, a U may be cleared when a student performs 4 hours of pre-approved community service and pays a \$10 fine.

Refer to NUAMES Citizenship Policy in the student handbook for the most up to date citizenship requirements.

Opportunities At NUAMES

ADVANCED PLACEMENT

- College level courses designed for college bound students
- Must pass final exam from College Board to receive college credit
- \$95.00 fee for College Board Exam
- See course catalog for available courses

CONCURRENT ENROLLMENT (CE)

- College curriculum, syllabus and course work is taught by a high school teacher
- The student must apply to the college or university offering the CE credit and pay the admissions fee.
- There is a \$5 per credit registration fee that must be paid to the college or university to receive college credit
- All university/college deadlines for admission and registration must be met.

EARLY COLLEGE (EC)

- Students must meet the requirements and be admitted into the Early College Program
- Students enroll in and attend Weber State University courses taught by WSU personnel.

INTERNSHIPS – Work Based Learning (WBL)

- Be a part of this exciting work-based learning course that prepares high school juniors and seniors to become successful employees in the workforce while exploring future careers.
- Students can intern in a field that they are considering as a potential career.
- Juniors/Seniors complete an Internship application to begin the process.
- Contact Kristi Belliston, the Internship Coordinator, for questions: kbelliston@dsdmail.net

UTAH TECHNICAL COLLEGES

- See your counselor (counseling Center) to inform them of your intent to attend DTC or OWTC.
- When you visit the tech colleges, you will meet with a member of Student Services who will give you an application, additional information, and get you enrolled in your program of choice.
- There are day, evening, and summer opportunities available.
- Juniors and Seniors may apply for two class periods or more each day.

Nuames Online Program

Program Description:

NUAMES Online is a web-based curriculum that will be taught by a NUAMES instructor. **Our mission is to educate, remediate, accelerate, and graduate NUAMES students.** Students interested in taking online courses at NUAMES must have good organization and time-management skills. The curriculum requires students to independently move from one lesson to the next and complete the unit tests.

NUAMES “EXTRA” ONLINE COURSES:

1. The “EXTRA” Online courses are taken outside the student’s 8 period schedule.
2. Courses are offered for ORIGINAL credit in the Summer, Fall, and Spring semesters.
3. Course Fee for academic courses is \$100 for a .5 credit course.
4. Students can work at their own pace in these courses, all work needs to be completed by the semester deadline.
5. Driver’s education is .25 credit and is \$250. Student must have learner’s permit to enroll in the course.

<u>EXTRA Original Credit Courses:</u>		
Financial Literacy (.5)	Fit for Life (.5)	Driver’s Education (.25)
Health Education 2 (.5)	Lifetime Activities (.5)	

NUAMES ONLINE RECOVERY CREDIT COURSES:

1. Recovery Credit is available for students who failed courses in any quarter(.25) from 9th-12th grade.
2. Course fee is \$50 per .25 credit course.
3. NUAMES Recovery is a self-paced web-based course that must be completed by the semester deadline.

<u>Recovery Credit Courses:</u>		
English 10 (All four quarters)	World History (All four quarters)	Secondary Math 1 (All four quarters)
English 11 (All four quarters)	US History (All four quarters)	Secondary Math 2 (All four quarters)
English 12 (All four quarters)	US Government (both quarters)	Secondary Math 3 (All four quarters)

Registration:

To register for a class students must make an appointment with a NUAMES Counselor to determine appropriate courses, understand requirements of the course and pay for the course in the main office. After completing registration and payment, students can begin coursework. Students need to complete all course work on/or before the completion deadline.

NCAA Clearinghouse Eligibility

If you would like to be eligible to play college sports, you will need to register during your sophomore year, with the [NCAA Website](#). You must complete 16 approved core courses which can be found on the counseling corner website. NCAA students need the following breakdown:

- **4 years of English**
- **3 years of mathematics (Algebra I or higher)**
- **2 years of natural/physical science (one must be a lab science)**
- **1 year of additional English, math, or science**
- **2 years of social studies**
- **4 years of additional core courses (from any area listed above or from foreign language)**

The NCAA will require prospects who intend to enroll at NCAA Division I and Division II institutions to supply ACT or SAT scores to the eligibility center directly from the testing agencies. Test scores on an official high school transcript are not usable for NCAA purposes. Start now and plan to have your ACT and SAT scores.

Graduation Academic Honors Recognition Program

SUMMA CUM LAUDE: (Gold Cord)

- Student must have a cumulative grade point average (GPA) of 3.75 - 4.0 by the end of 3rd quarter of their senior year.

MAGNA CUM LAUDE: (Silver Cord)

- Student must have a cumulative grade point average (GPA) of 3.50 - 3.74 by the end of 3rd quarter of their senior year.

High School & Post-high Vocabulary

ADMISSIONS INDEX SCORE - ADMISSIONS INDEX SCORE A score created by combining your GPA and ACT or SAT score. Colleges use this score to determine your admission and academic scholarships. Increasing your GPA and/or test scores improves your admission index score. See your counselor to find out what your index number is and what Utah schools require.

AP COURSES (Advanced Placement) - Advanced placement courses are college-like classes to help prepare students for college. Passing the AP test at the end of school can earn you college credit.

ASSESSMENT - This is another name for tests. Assessments are used to measure your interests, abilities and achievements.

ASSOCIATE'S DEGREE (AA or AS) - This is a two-year degree offered by colleges and universities.

BACHELOR'S DEGREE (BA or BS) - This is a four-year degree offered by colleges and universities.

CAREER TECHNICAL EDUCATION (CTE) - Offers students depth of knowledge and skill linked with specific post-secondary school programs culminating in certificates or degrees.
CONCURRENT ENROLLMENT (CE) - CE classes are an opportunity for high school students to earn college credit while they are still in high school. A CE class provides high school credit and college credit at the same time. Check with your high school for classes offered.
CUMULATIVE GPA - This is the average of ALL grades you earn starting with ninth grade up until you graduate.
FAFSA - This stands for Free Application for Federal Student Aid. You must complete this form to apply for federal financial aid to help pay for college.
GPA - This is your grade point average. Your GPA is an average of the grades you earn in any grading period. However, your cumulative GPA is your permanent GPA.
CCR - College and Career Readiness. This is a meeting between parents, student and counselor to help support the student in his/her educational and career goals.
TEST Acronyms - Please refer to the testing page in this booklet for test descriptions. ACT-American College Test ASVAB-Armed Services Vocational Aptitude Battery PSAT/NMSQT- Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifier Test SAT-Scholastic Aptitude Test
TRANSCRIPT - This document is your permanent educational record. It documents classes, grades, test scores, cumulative GPA and class ranking. An official transcript is requested when applying for college and scholarships. Unofficial transcripts can be accessed using the student information system. Official transcripts can be ordered through the registrar.

Testing Information

Test Information	10th	11th	12th
ACT - This test should be taken no later than the end of the student's Junior Year. Register online at http://www.act.org/ Students wanting to participate in NUAMES Early College Program their Junior year need to take the ACT no later than February of their sophomore year.	Optional	X	X
PSAT/NMSQT - Preliminary SAT/National Merit Scholarship qualifier test. This test is given only in October. It allows Juniors to participate in a national scholarship competition, receive recognition and practice for the SAT I test.	X	X	
SAT I and SAT II - College entrance tests. SAT 1 measures verbal and math reasoning abilities. SAT II tests subject areas. These tests are given at WSU and the U of U. The SAT 1 is required by many out of		X	X

state colleges/universities. Register online at https://www.collegeboard.org/			
ASVAB (Free) Armed Services Vocational Aptitude Battery. This is a three hour test given by the military. Students should talk to their counselor about available dates.	X	X	X
AP (Advanced Placement tests \$\$) Tests in many subjects. Students may receive college credit by passing a test with a score of 3, 4, or 5. Check with each college/university or utahmentor.org for the specific amount of college credit awarded.	X	X	X
ASPIRE Plus Test -	X		

Test Prep Websites

<http://www.actstudent.org>

<http://www.march2success.com>

<http://www.shmooop.com/utah/>

<http://www.collegeboard.com>



Concurrent Enrollment Credit Opportunities

Univ	NUAMES Course #	CE COURSE TITLE	Pure Class (CE only)	Grade Level	SEM or Year	UNIV Course #	UNIV. Credit Hours
GENERAL EDUCATION CLASS and CORE CREDIT							
ENGLISH COMPOSITION (3 credit with a grade of 'C' or better)							
WSU	4295	CE English 1010	P	12	SEM	ENGL 1010	3
WSU	4300*	CE English 2015	P	12	SEM	ENGL 2015	4
AMERICAN INSTITUTION (3 credits with a grade of 'C')							
WSU	4555*	CE American Civilizations	P	11, 12	SEM	HIST 1700	3
WSU	4566*	CE Political Science	P	11,12	SEM	POLS 1100	3
MATH QUANTITATIVE LITERACY (3 credits with a grade of 'C' or better)							
WSU	5610	CE Math 1010	P	12	SEM	MATH 1010	4
WSU	5620	CE Math 1030	P	12	SEM	MATH 1030	3

WSU	5640*	CE Math 1050	P	12	SEM	MATH 1050	4
USU	5660	CE Math 1060	P	12	SEM	MATH 1060	2
HUMANITIES (at least 3 credits of 9 credits)							
WSU	4290*	CE Communications	P	11,12	SEM	COMM 2110	3
CREATIVE ARTS (at least 3 credits)							
WSU	2130*	CE Studio Art Drawing	P	11,12	SEM	Art 1030	3
WSU	7765*	CE Game Development Fundamentals	P	10,11,12	SEM	CS 1010	3
WSU	2132*	CE Intro to ART (Art History)	P	11,12	SEM	ART1010	3
WSU	2322*	CE Intro to MUSIC (online)	P	11,12	SEM	MUSC1010	3
SOCIAL SCIENCE (6 credits)							
WSU	4573*	CE Psychology	P	11,12	SEM	PSY 1010	3
PHYSICAL SCIENCE (at least 3 credits of 9 credits)							
WSU	6540*	CE Physics	P	11,12	YR	PHYS 1010	3
WSU	361110*	CE Geology	P	11,12	SEM	GEO 1110	3
WSU	6450	CE 1110 CHEM and Lab	P	11,12	YR	CHEM 1110	5
LIFE SCIENCE (at least 3 credits of 9 credits)							
WSU	7463*	CE Foundations of Human Nutrition	P	11,12	SEM	NUTR 1020	3
HEALTH SCIENCES							
WSU	7303	CE Emergency Medical Response	NP	11,12	SEM	AT 2300	3
WSU	7309	CE Medical Anatomy and Physiology	P	11,12	SEM	HTHS 1101 HTHS 1120	2 3
TECHNOLOGY AND ENGINEERING							
WSU	7850/56	CE CAD Engineering / Mechanical Design	NP	10,11	YR	PDD 1010	3
WSU	7890/91	CE PLTW Principle of Engineering	NP	10,11	YR	ENGL 1000	2
WSU	7892/93	CE PLTW Digital Electronics	NP	11,12	YR	EET 1110 EET 1130	3 3
WSU	7894/95	CE PLTW Civil Engineering	NP	11,12	YR	BDC 1350 CMT2360	3 3
WSU	7896	CE PLTW Engineering Capstone	NP	11,12	SEM	PDD 2830	3
COMPUTER SCIENCE							
WSU	7718	CE Computer Science Principles	NP	10,11,12	SEM	CS 1030	4
WSU	7736	CE Computer Programming 1	NP	10,11,12	SEM	CS 1400	4
WSU	7737	CE Advanced Programming	P	11,12	SEM	CS 1410	4
WSU	7711	CE Algorithms & Data Structure	P	11,12	SEM	CS 2420	4
BUSINESS							
WSU	7542	CE Entrepreneurship	P	11, 12	SEM	ENTR 1002	3
WSU	7530	CE CE WEB 1700	NP	10,11,12	SEM	WEB 1700	3
WSU	7525	CE Business Management	NP	11,12	SEM	BSAD 1010	3

Advanced Placement (AP) Credit Opportunities

- AP is a national rigorous curricular opportunity that requires passing the national exam to earn college level credit.
- If you pass the associated AP test, you will get 3 – 8 college credits. Number of credits awarded are determined by the college.
- AP courses are a way to complete college credit and save money.
- The AP program is nationally recognized and can be a beneficial to student transcript.
- See University AP Guidelines for specific credit articulation.
- https://www.weber.edu/Admissions/AP_Guidelines.html

AP Course Title	WSU College Articulation	Total Credit
AP World History	Score 3-5 / HIST 1510/Social Science/Diversity (3)	3
AP Literature	Score 3-5 / ENGL 1100/Humanities/Diversity (3)	3
AP Physics 1	Score 3 / Physics 1010 (3) Score 4-5 / Physics 2010 (5)	3 5
AP Biology	Score 3 / Z00L 1010 (3) Score 4-5 / Z00L 1110 (4)	3 4

2021-2022 WSU General Education Certificate of Completion

NUAMES EARLY COLLEGE HIGH SCHOOL

Core General Education Requirements	
English Composition #1 prerequisite for English 2010 (fulfill one of the 3 below)	
CE English 1010 English & Reading ACT Score <29 AP Lit & Language	
English Composition #2 (3 credits) (Sr. year)	
CE English 2015 (see English Composition #1 for course Pre-req)	
Information Literacy (1 credit) (Sr. year)	
CE Information Navigator LIBS 1704 (taken with English 2010)	
American Institutions (3 credits)	
CE American History HIST 1700 CE US Government POLS 1100	
Quantitative Literacy (3 credits)	
CE Math 1050 CE Math 1030	
Diversity (3 credits)	
AP World History AP Geography (9th grade)	
Humanities #1 (3 credits)	
CE Communications COM 2110 AP English Lit.	
Creative Arts #1 (3 credits)	
CE Studio Drawing ART 1030CE	Intro to Art ART 1010
CE Game Development CS 1010	Intro to MUSIC 1010
Humanities #2 or Creative Arts #2 (3 credits) -	
Choose one more class from either the Creative Arts list or the Humanities list.	
Social Science (6 credits)- Choose two classes from the Social Science list.	
CE Psychology PSY 1010	AP Human Geography (9th grade)
AP World History	
Life Science #1 (3 credits)	
CE Found of Human Nutrition NUTR 1020	AP Biology
Physical Science #1 (3 credits)	
AP Physics	CE Geology- GEO 1110
AP Environmental Science (9th grade)	CE 1110 CHEM and Lab
Life Science #2 or Physical Science #2 (3 credits) -	
Choose one more class from the Life Science list or the Physical Science list.	
<p><i>Students completing these required General Education credit courses can receive a General Ed Letter of Completion which is accepted at any state Utah Higher Ed Institution as completion of General Ed requirements. About 37 General Ed Credits + 21 Elective credits = a 60 credit Associates Degree. **Always double check with the desired institution for official verification of their Gen Ed Letter of Completion.</i></p>	

Art (1.5 credits for graduation)

<p>2110-Drawing I SEMESTER Fine Arts Credit (10th, 11th, 12th) <i>Course Fee: \$20</i></p>	<p><u>Course Description:</u> Drawing focuses on black and white or monochromatic rendering from life, pictures, masterworks, and imagination. With an emphasis on studio production, this course is designed to develop higher level thinking and art related technology skills. Some experience in art criticism, art history, and aesthetics may be included.</p>
<p>2107-Painting I SEMESTER Fine Arts Credit (10th, 11th, 12th) <i>Course Fee: \$20</i></p>	<p><u>Course Description:</u> Painting 1 includes wet and dry color media with processes such as transparent and opaque painting that focuses on the operations of color. Students develop perceptual skills, graphic skills and skills of observing and evaluating works of art. Students develop compositional skills by learning and applying visual concepts that apply to color.</p>
<p>2108-Painting 2 SEMESTER Fine Arts Credit (10th, 11th, 12th) <i>Course Fee: \$20</i></p>	<p><u>Prerequisite:</u> Painting 1 <u>Course Description:</u> This course is structured as an intermediate course that builds on the medium specific (transparent or opaque) painting techniques learned from Painting I. In this course you will have a chance to explore topics that focus on your interests through two dimensions, with an emphasis on painting. We will use a variety of materials including pencil, watercolor, acrylic, mixed media, and oil. In class we will discuss artwork, current and historic. We will also critique, or talk about, your finished work.</p>
<p>7696-Basic Digital Photography I SEMESTER Fine Arts Credit (10th, 11th, 12th) <i>Course Fee: \$20</i></p>	<p><u>Course Description:</u> The class will explore the world of digital photography and photo editing, beginning with artistic expression. The class will work to understand the functions of a DSLR camera and how to use those functions to create and make compositionally meaningful photos. Students will learn how to 'make' a photo instead of just 'take' a photo utilizing composition, rule of thirds, emphasis, message conveyance, delivery and professionalism. Students will use the computer to manipulate photos using Adobe Photoshop, Adobe Lightroom, as well as other Adobe editing tools to manipulate, print, and edit their final images. <u>Digital camera required</u></p>
<p>7752-Digital Graphic Arts Intro SEMESTER Fine Arts Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> This course is designed to provide students with the basic knowledge and skills related to the graphic design industry. It is intended to serve as a starting point for several pathways including Digital Media, Graphics and Printing, 3D Animation and Game Development. This includes instruction and hands-on assignments in the following areas: creative design & layout, typography, color, related software, and computer and professional skills.</p>
<p>2322-CE Intro to Music - Online SEMESTER Fine Arts Credit (11th, 12th)</p>	<p>WSU registration & course fees apply <u>Course Description:</u> This course is designed to provide an introduction to music, its elements, language, and historical development. The course focuses on European and American music with components of jazz, world, and popular genres.</p>

CE Fees: WSU \$5 per credit	3 WSU Credits - MUSC 1010 / WSU Creative Art (CA) General Ed.
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<p>2130 - CE Studio Art SEMESTER Fine Arts credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit Course Fee: \$20 WSU Art kit required</p>	<p><u>Prerequisite:</u> Art Foundations 1 or 2 OR Drawing 1 WSU registration & course fees apply</p> <p><u>Course Description:</u> This course is a semester college-level course. Studio Art introduces students to the relationships between seeing, thinking and making, which are central to artistic practice. This course incorporates studio work, artistic research, individual and group discussions and critiques, as well as slide lectures and presentations. It is designed to help students gain an understanding of the fundamentals of visual art. Students will learn drawing, painting, and printmaking techniques and will review the fundamentals of design. The history of art and contemporary artistic practice will be discussed. Outside of class assignments and class critiques are an important part of this course. 3 WSU Credits - ART 1030 / WSU Creative Art (CA) General Ed.</p>
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<p>2132- CE Art 1010 Intro to Art SEMESTER Fine Arts credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit Course Fee: \$20 WSU Art kit required</p>	<p><u>Prerequisite:</u> WSU registration & course fees apply</p> <p><u>Course Description:</u> Through lectures, reading, and gallery visits, students will learn aut various processes and techniques of art making, develop an understanding of the functions of art, learn the basic vocabulary for describing visual art, and general historical understanding of the role art has played in our society. 3 WSU Credits - ART 1010 / WSU Creative Art (CA) General Ed.</p>
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<p>7765 - CE Game Development SEMESTER Fine Art/Digital Learning Credit (10th, 11th, 12th)</p> <p>CE Fees: WSU \$5 per credit Course Fees: \$20</p>	<p><u>Prerequisite:</u> NONE WSU registration & course fees apply</p> <p><u>Course Description:</u> This course is designed to provide students with knowledge and project-based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, analyzing digital assets and graphic resources, animations, understanding hardware and software, problem solving, critical thinking, collaboration, and project management. 3 WSU Credits - CS 1010 / WSU Creative Art (CA) General Ed.</p>
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Business

<p>7530- CE WEB 1700 Digital Survival Skills SEMESTER Digital Learning OR Elective (10th, 11th, 12th)</p>	<p><u>Course Description:</u> WSU registration & course fees apply</p> <p>This is the class that helps you learn everything you need to survive with Microsoft Office, including PowerPoint, Excel, Word and Access all in one semester. Students may earn CE credit and are given the opportunity to earn Microsoft Office Specialist (MOS) industry certifications. Membership in FBLA is encouraged. 3 WSU Credits - WEB 1700 / WSU Elective Credit - General Ed.</p>
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<p>7525 - CE Business Management SEMESTER Elective Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Course Description:</u> WSU registration & course fees apply Business Management is not just about managing, but also about accounting, marketing, supply chain, human resources, entrepreneurship, economics, and business plans. Students will work in small groups throughout the semester to develop a simple business idea and plan as they learn about each part of running a small business. All students can benefit regardless of their future endeavors. Membership in FBLA is encouraged. 3 WSU Credits - BSAD 1010 / WSU Elective Credit - General Ed.</p>
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<p>7501 - Accounting 1 SEMESTER Elective Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Students will review the basic elements and concepts of double entry accounting systems. Skills will include a knowledge of maintaining manual records within the accounting cycle, entering transactions in journals; posting to ledgers; compiling end of period worksheets; adjusting and closing entries; statements and reports and banking activities. We will be learning using an online accounting system. Membership in FBLA is encouraged.</p>
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<p>7502 - Accounting 2 SEMESTER Elective Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Prerequisite- Accounting 1 Students will review the basic elements and concepts of double entry accounting skills learned in Accounting I and go on to develop advanced accounting skills. Additional skills acquired are dealing with uncollectible accounts, payroll, depreciation, interpreting financial information to make decisions, and calculating notes and interest. An online accounting system will be used. Membership in FBLA is encouraged.</p>
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<p>7542 - Entrepreneurship CE ENTR 1002 SEMESTER Elective Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Course Description:</u> WSU registration & course fees apply This course presents an overview of entrepreneurship and helps students develop an entrepreneurial mindset; to identify problems and opportunities and to formulate viable entrepreneurial solutions. 3 WSU Credits - ENTR 1002 / WSU Elective Credit - General Ed</p>
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Davis Tech / O-Tech

<p>700 - Davis Tech / O-Tech Elective Credit (11th, 12th) Skills Training Courses</p>	<p>UTech registration & course fees may be required. Davis Technical College and Ogden Weber Technology College offer a wide variety of technical education programs. <u>Pre-requisites to apply:</u> NUAMES students interested in Davis Tech / O-Tech programs must be on-track for graduation. Students are required to provide their own transportation to Davis Tech / O-Tech. Students interested in participating in these programs should contact their NUAMES counselor for further information. Davis Technical College https://www.davistech.edu/ Ogden Weber Technical College https://www.otech.edu/</p>
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Driver's Education

<p>1100 - Driver's Education - Online SEMESTER Elective Credit (10th, 11th, 12th)</p> <p>Course Fees: \$165 Regular school day \$250 Outside of the regular school day</p>	<p><u>Prerequisite:</u> Driving Permit (Learner Permit) is required prior to the 1st day of class. <u>Course Description:</u> Driver's Education is designed to help students acquire the knowledge, attitude, and skills necessary for safe driving. This class can be taken during the regular school day (\$165 fee) or as an additional class outside of the school day (\$250 fee). This class is also taught during the summer (\$250 fee).</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 50%; padding: 5px;">Students who turn 16 between: Summer and February 29th March 1st and August 31st</td> <td style="width: 50%; padding: 5px;">Register for: 1st Semester 2nd Semester</td> </tr> <tr> <td style="padding: 5px;">Any student interested (must be at least 15 & have a learner permit)</td> <td style="padding: 5px;">Summer</td> </tr> </table> <p style="margin-top: 10px;">The law requires that students receive a specific number of hours for classroom (online) instruction as well as behind the wheel. Students will complete road driving with NUAMES high school driving instructors. All road driving will be done before or after school and on Saturdays. It will be the student's responsibility to arrange for transportation to and from the school for these driving sessions. Students who miss any of the driving time will not receive a completion certificate.</p> <p>Students must get their learner permit prior to starting the Driver's Education class. Students are required to fill out and return the white information card before they will be scheduled to drive. Students will pick up the card from the teacher or the main office.</p>	Students who turn 16 between: Summer and February 29th March 1st and August 31st	Register for: 1st Semester 2nd Semester	Any student interested (must be at least 15 & have a learner permit)	Summer
Students who turn 16 between: Summer and February 29th March 1st and August 31st	Register for: 1st Semester 2nd Semester				
Any student interested (must be at least 15 & have a learner permit)	Summer				

Electives

<p>7912 - CTE Internship SEMESTER Elective Credit (11th, 12th)</p>	<p><u>Course Description:</u> This exciting course prepares students to become successful employees in the workforce while exploring career interests as they work with professionals in the community. The course curriculum focuses on developing employable skills and creating a professional portfolio so students can be career-ready! Internship is for juniors and seniors, is one semester, and is available both semesters. Internship application is required.</p>
<p>7885/86 - Robotics and Automation YEAR Elective Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Robotics and Automation is a lab-based, hands-on curriculum combining electrical, mechanical and programming principles. Students will learn to design, build, program and control robotic devices by applying science, technology, engineering and math concepts. A rigorous study and application of: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators, mechanical design, prototype development, design testing,</p>

	programming, and proper engineer documentation. Industrial automation, robotic applications and career opportunities will also be discussed.
4335 Creative Writing 1 SEMESTER Elective Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> A course designed to expand skills in creative fiction, non-fiction, and poetry writing. Any person with a desire to write and some measure of talent will find this class helpful. Much individual help will be given in assignments (setting, characterization, description, imagery, humor, poetry, etc.) Students will work toward improvement in the writing process, revision, editing, and polishing their work. Students will also be required to respond to the work of others.
7690 Law Enforcement SEMESTER Elective Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> This class gives students a better understanding of what a police officer does, how laws affect them and what is expected of them as citizens. Most lessons are taught in the classroom. Some lessons will have actual police situations explained or presented to them. Some of the major points covered in this class include juvenile law and school rules, civil law vs. criminal law, reasonable suspicion/probably cause, arrest & court procedures, dating violence, K-9 demo, identity theft, internet safety, investigations, alcohol & drug awareness, sexual assault awareness, crimes against property & persons, escalation of force and traffic stops & DUI.
4570 - Psychology SEMESTER Elective Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> This introductory psychology course exposes students to a variety of topics all related to the study of human behaviors and mental processes! Topics include: the brain and behavior, human growth and development, personality, abnormal behavior, cognition, and memory.
4365 - Yearbook YEAR Elective Credit (10 th , 11 th , 12 th)	<u>Prerequisite:</u> Students must have at least a 3.0 cumulative GPA in order to be admitted into the yearbook class. <u>Course Description:</u> No prior journalism experience is required. Yearbook/newspaper focuses on developing journalistic skills of interviewing, writing, photography, and design to create professional-level newspapers each month as well as the school yearbook. The curriculum includes writing assignments for everyone, as well as assignments pertaining to specific staff requirements. Students will have homework requirements and may be expected to cover after school events such as dances, club activities, and other meetings.
4600 - Current Issues SEMESTER Elective Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> This course will enlighten the students about their world. It will look at “then, now, and the why’s” of our world. Students will have a chance to learn and understand the social economics and political events as they happened. The class will use maps, magazines, newspapers, TV and internet to explore our world.
400 - Study Skills	<u>Course Description:</u>

SEMESTER ELECTIVE CREDIT (10 th , 11 th , 12 th)	The purpose of this course is to provide students exposure to skills directed toward academic performance and success. These skills include planning and prioritizing, organization, initiation of work, increasing working memory, and time management. Students will also develop skills in the areas of self-monitoring, flexible thinking, and stress management. Students will complete self-assessments, engage in self-reflection, and be offered tools that will enable practice and proficiency in each of the skill areas. The goal of this course is to offer students time to practice these skills to support their performance at NUAMES.
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Electives CE

771105 - CE UNIV 1105 Foundations of College Success SEMESTER Elective Credit Required for Grade 10 CE Fees: WSU \$5 per credit	WSU registration & course fees apply <u>Course Description:</u> The purpose of this course is to provide skill development to promote academic success, executive functioning, social development, testing strategies, core strategies that enable students to write more effectively, comprehend text more fully and quickly, and diagnose and solve test questions more accurately. Students will be introduced to NUAMES resources, time management, study skills, and college and career exploration. The goal is that by mastering the strategies taught in this course, NUAMES students will be better prepared for standardized tests including the ACT Test, the rigors of NUAMES High School, and future university coursework. 3 WSU credits - UNIV 1105 / WSU Elective Credit - General Ed.
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4573 - CE Psychology (Virtual) SEMESTER Elective Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	WSU registration & course fees apply <u>Course Description:</u> CE Psychology is an introductory course to the science of human behavior and mental processes. We will discuss the brain, genetics/epigenetics, sensory systems, states of consciousness, learning, memory, development, intelligence, mental illness, and many other exciting topics. Particular emphasis will be put on relating this knowledge to one's life and to the understanding of others. 3 WSU credits - PSY 1010 / WSU Social Sciences (SS) - General Ed.
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4290 – CE Interpersonal Communications SEMESTER Elective Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	WSU registration & course fees apply <u>Course Description:</u> Explores the dynamics of verbal and nonverbal communication in personal relationships and small groups. The emphasis is on practical application of course content to enhance interpersonal relationships and to achieve competence as group members. This course requires an out-of-class commitment to completing a service project. 3 WSU credits - COMM 2110 / WSU Humanities (HU) - General Ed.
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7303 -CE Emergency Medical Response SEMESTER Elective Credit (11 th , 12 th) CE Fees:	WSU registration & course fees apply <u>Course Description:</u> This class is a great starting point for those who are interested in the medical field, law enforcement, EMT, or anyone who wants to know how to respond in an emergency situation. Meets the needs of the non-healthcare professional who has a duty to respond in an emergency. Provides more skills and in-depth training than the First Aid:
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WSU \$5 per credit	<p>Responding to Emergencies course. This course leads to American Red Cross certification in Emergency Response and CPR for the Professional Rescuer.</p> <p>3 WSU Credits - HLTH 2300 / WSU Elective Credit - General Ed.</p>
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<p>7896 CE Engineering Capstone SEMESTER (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Course Description:</u> Students can utilize this course to complete their Senior Capstone Project in any field of Engineering. Students will research, develop, test and analyze designs using criteria such as cost, effectiveness, safety, human factors, and ethics. Effective technical communication skills, including written, oral and graphic will be developed.</p> <p>Membership in TSA and/or Robotics is encouraged.</p> <p>3 WSU Credits - PDD 2830 / WSU Elective Credit - General Ed.</p>
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Engineering

(2 years required for graduation)

<p>7850/7856 – CE CAD Engineering 1&2</p> <p>YEAR</p> <p>Engineering Credit (10th, 11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Course Description:</u> This class is required for all students who will take higher-level courses like EP, Architecture, Aerospace, and Capstone.</p> <p>This is an introductory course which develops student problem solving skills. Students will learn to use 3D Computer Aided Design (CAD) software. They will learn problem-solving design processes and how they are used in industry. Students will be exposed to the techniques learned and equipment used by engineers throughout the United States. The techniques covered in this class will be based on standards from both Mechanical and Architectural disciplines.</p> <p>Membership in TSA and/or Robotics is encouraged.</p> <p>6 WSU Credits - PDD 1010 and IDT 1050 / WSU Elective Credit - General Ed.</p>
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<p>7890/91 – CE PLTW Principles of Engineering (POE)</p> <p>YEAR</p> <p>Engineering Credit (10th, 11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> CE CAD Engineering 1 & 2</p> <p><u>Course Description:</u> This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Membership in TSA and/or Robotics is encouraged.</p> <p>2 WSU Credits - ENGR 1000 / WSU Elective Credit - General Ed.</p>
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<p>7892/93 – CE PLTW Digital Electronics Technology (DE)</p> <p>YEAR</p> <p>Engineering Credit (11th, 12th)</p>	<p><u>Prerequisite:</u> CE CAD Engineering 1 & 2</p> <p><u>Course Description:</u> Digital Electronics begins with the basics of electronics, moves into components, and then into circuit construction, building own power supplies and circuit testers while learning soldering basics. We learn binary, and waveforms, and about how computers combine electronic components to perform artificial intelligence. We design a lot of electrical circuits, such as basic computer memory, binary clocks, calculators, etc.</p>
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CE Fees: WSU \$5 per credit	And we learn how to program whole circuits into integrated circuits. This class preps you for the age of automation. Membership in TSA and/or Robotics is encouraged. 6 WSU Credits - ECE 1000 and ECE 2700 / WSU Transferable Engineering Credit
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7894/95 – CE PLTW Civil Engineering YEAR Engineering Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> CE CAD Engineering 1 & 2 <u>Course Description:</u> This course is a year-long course that prepares students for careers in the Architecture, Engineering, and Construction (AEC) Industry. This course includes instruction in 3D Computer Aided Design (CAD) software to design and model a small residential home with an emphasis on residential methods and materials of construction, codes, and Building Information Modeling (BIM). Membership in TSA and/or Robotics is encouraged. 6 WSU Credits - BDC 1350 and CMT 2360 / WSU Elective Credit - General Ed.
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7835 - PLTW Aerospace Engineering YEAR Engineering Credit (11 th , 12 th)	<u>Prerequisite:</u> CE CAD Engineering 1 & 2 or Principles of Engineering <u>Course Description:</u> The major focus is to acquaint the students with the world of flight and space travel. The course covers the following: the history of flight; aerodynamics and aerodynamics testing; flight systems; astronautics; space life sciences; aerospace materials; systems engineering. Aerospace Engineering is intended to serve as a specialization course within the engineering sequence.
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Engineering - Computer Science

(Courses count towards 2 years Engineering Credit)

7740 - Computer Science Principles FALL SEMESTER Engineering Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> Computers are an essential part of every occupation. Having a basic understanding of computers will help students become more confident users. This course is taught at an introductory level and presents a broad overview of topics in computing such as how computers work and communicate with one another, how data is stored and used in a computer, and how to create a website and write a computer program.
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7718 - CE CS 1030 Programming 1 SPRING SEMESTER Engineering Credit (10 th , 11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> Computer Science Principles University requirements for enrollment in CE courses must be met. WSU registration & course fees apply <u>Course Description:</u> The course introduces students to the fundamentals of computer programming in the Python language. Students will learn to design, code, and test their own programs while applying mathematical concepts and problem-solving skills. 4 WSU Credits - CS 1030 / WSU Elective Credit - General Ed.
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7736 - CE CS 1400 Programming 2 SPRING SEMESTER Engineering Credit (11 th , 12 th)	<u>Prerequisite:</u> CS 1030 CE Computer Programming 1 with a “C” or better OR AP Computer Science Principles Exam score of 3 or better WSU registration & course fees apply <u>Course Description:</u>
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CE Fees: WSU \$5 per credit	This course reviews and builds on the basic operating system navigation and components of the program development process introduced in the previous course. The majority of the course covers basic problem solving and program design of a software application using the Java programming language. 4 WSU Credits - CS 1400 / WSU Elective Credit - General Ed.
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7737 - CE CS 1410 Advanced Computer Programming FALL SEMESTER Engineering Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> CS 1400 Computer Programming 2 with a “C” or better WSU registration & course fees apply <u>Course Description:</u> This advanced course is object-oriented computer programming. It is intended to serve both as an introductory course for computer science majors and as a substantial services course for people who will major in other disciplines that require significant involvement with computing such as engineering. A primary objective is to teach students how to write logically structured, well-documented computer programs. The language for this course is currently C++. THIS COURSE IS TAUGHT BY WSU AS A CONCURRENT ENROLLMENT COURSE. 4 WSU Credits - CS 1410 / WSU Elective Credit - General Ed.
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7711 - CE CS 2420 Algorithms & Data Structure SPRING SEMESTER Engineering Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> CS 1410 Advanced Computer Programming AND MATH 1080 or MATH 1050 and MATH 1060 . WSU registration & course fees apply <u>Course Description:</u> General principles of common data structures and design of efficient algorithms. Topics include: arrays, linked-lists, stacks, queues, trees, graphs, tables, storage and retrieval structures, searching, sorting, hashing, and algorithmic analysis. Emphasis will be on abstraction, efficiency, reusable code, and object-oriented implementation. THIS COURSE IS TAUGHT BY WSU AS A CONCURRENT ENROLLMENT COURSE. 4 WSU Credits - CS 2420 / WSU Elective Credit - General Ed.
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English

(4.0 credits for graduation)

4085 - Honors English 10 YEAR English Credit (10 th)	<u>Course Description:</u> This course will continue to develop comprehension, composition, and grammar skills developed in Ninth Grade English. Students will use the entire writing process to develop skills in writing narratives, informative papers, persuasive essays and research reporting using non-traditional materials. Students will study world literature including the in-depth study of novels and short stories. Grammar and usage will be emphasized.
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4105 - Honors English 11 YEAR English Credit	<u>Course Description:</u> This course will help students develop real-world communication skills, including reading, writing, speaking, and listening. This course is designed to build on the skills of literary comprehension, composition, and grammar that were developed in English
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(11 th)	10. Students will use the entire composition process to develop skills in writing narratives and poetry, persuasive essays, interpretative essays, and research skills. There will be a strong focus on literary analysis, critical thinking skills, and respectful dialogue. This course includes preparation for English and reading sections of college entrance exams.
4315 - AP English Literature and Composition YEAR English Credit (11 th , 12 th) Refer to the AP credit guide for college credit.	<u>Prerequisites</u> "B" average in two previous years' English classes. <u>Course Description:</u> An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. A minimum of five longer works of fiction will be read, including novels and plays, that cover the time period from the 1600s in England to modern-day American literature. In addition, numerous short stories and poems will be discussed. There will be a strong focus on literary analysis, critical thinking skills, and respectful dialogue.
4150 - English 12 YEAR English Credit (12 th)	<u>Course Description:</u> This course will help students develop reading, writing, and critical thinking skills which is a prerequisite for entry-level college courses. The course will also focus on the reading of functional, literary, and narrative texts; speaking/listening; vocabulary; grammar usage and mechanics; research skills; presentation skills; workplace writing; and study skills.
4295-CE English 1010 SEMESTER English Credit (12 th) CE Fees: WSU \$5 per credit	<u>Prerequisites:</u> ACT English score of 17 or above (scores must be obtained by May of junior year). WSU registration & course fees apply <u>Course Description:</u> This class requires you to read and think about broad issues and then write about them using a process to come up with the best essay. The curriculum is the same for all freshman English classes in any college or university. The grading standards are those of a college class rather than a high school class. 3 WSU Credits - ENGL 1010 / WSU Elective Credit - General Ed.
4300 - CE English 2015 SEMESTER English/Elective Credit (12 th) CE Fees: WSU \$5 per credit	<u>Prerequisites:</u> CE English 1010 or an ACT score of 29 on English and Reading WSU registration & course fees apply <u>Course Description:</u> This course integrates two general education courses that contribute to one another both intellectually and conceptually. Information literacy provides a solid foundation for the writing process and encompasses the reflective discovery of information, the understanding of how information is produced and valued, the use of information in creating new knowledge, and the ability to participate ethically in the conversation. 4 WSU Credits - ENGL 2015 / WSU Composition - General Ed.

Financial Literacy

(.5 credits for graduation)

<p>7075 - General Financial Literacy SEMESTER Required Fin. Literacy Credit (11th, 12th)</p>	<p><u>Course Description:</u> This course is designed to teach students to skillfully manage personal financial decisions and transactions. Students will receive a knowledge base as well as opportunities for application through simulated activities. The basics of checking, credit, savings, investing, consumer loans, and insurance will be discussed. Students will use this knowledge and related skills to take individual responsibility for personal economic well-being. This class is required for graduation.</p>
<p>341010 - FIN 1010 - Personal Finance SEMESTER Fin. Literacy Credit (11th, 12th)</p>	<p><u>Course Description:</u> This course is designed to develop personal and family budgeting, understand installment buying, borrowing money, buying a home, life and property insurance, personal investment, and retirement and estate planning.</p> <p>3 WSU Credits - FIN 1010 / WSU Elective Credit - General Ed.</p>

Foreign Language

Foreign Language is not required for high school graduation however, it is recommended for college admission.

<p>3110 - Spanish 1 YEAR Elective Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> First year Spanish is an exciting introduction to this wonderful and most useful language. Communicative skills will be acquired primarily through interactive stories that require students to participate in various ways. These activities will benefit all students because the approach works for visual, auditory and hands-on learners. Students will have a daily opportunity to use the language, and as they work, they will gain confidence and competence. A positive class atmosphere will provide students a comfortable and safe learning experience.</p>
<p>3181 - Spanish 2 CE Spanish 1010 YEAR Elective Credit (10th, 11th, 12th) WSU \$5 per credit</p>	<p><u>Prerequisite:</u> Spanish 1 <u>Course Description:</u> Second year Spanish is an exciting and challenging continuation in the wonderful world of the Spanish language. Communicative skills will be enhanced through interactive stories that require students to participate in various ways. Class activities will be fun and relevant. Students will have a daily opportunity to use the language, and as they work, they will gain confidence and competence.</p> <p>3 WSU Credits - SPAN 1010 / WSU Elective Credit - General Ed.</p>
<p>3136 - CE Spanish 1020</p>	<p><u>Prerequisite:</u> Spanish 2 <u>Course Description:</u></p>

<p>YEAR Elective Credit (10th, 11th, 12th) WSU \$5 per credit</p>	<p>Third year Spanish is a class in which the goal of achieving communicative proficiency will continue at an advanced level. We will work hard on reading, writing, speaking and understanding skills. Students will have a daily opportunity to use the language, and as they work, they will gain confidence and competence. This can be a difficult class and if you are not already very comfortable with both forms of past tense (preterit and imperfect) which are covered extensively in Spanish 2 at NUAMES, Spanish 2 is probably a better option for you.</p> <p>3 WSU Credits - SPAN 1020 / WSU Elective Credit - General Ed.</p>
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Health

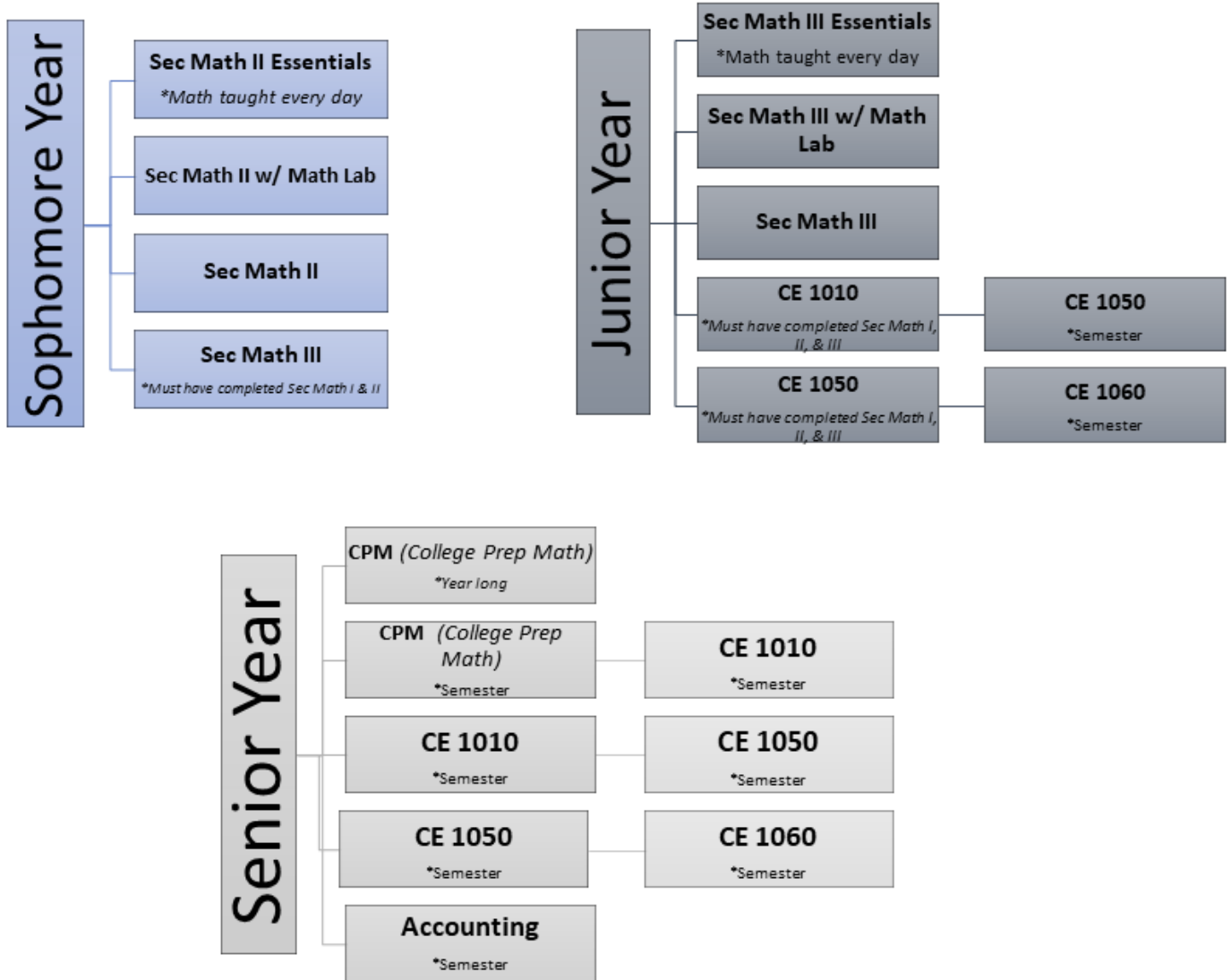
(.5 credits for graduation)

<p>1010 - Health Education 2 SEMESTER Required Health Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> This health course emphasizes the physical, mental, social, emotional, and spiritual development of young people. The class is a comprehensive program of interrelated components designed to assist students in the lifelong process of choosing and enjoying a HEALTHY LIFE–STYLE.</p>
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<p>7308 - Introduction to Health Sciences YEAR Meets Required Health Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> This course is designed to create an awareness of career possibilities in therapeutic, diagnostic, information and environmental health care, and inform students of the educational options available in health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases, and disorders. The course prepares students for the medical anatomy and physiology course and/or a variety of health technology programs. This year-long course also includes the Healthy Education 2 Curriculum and counts for the required .5 Health credit as well as .5 Elective credit.</p>
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Mathematics

(4.0 credits for graduation)



<p>5300 & 5301 Secondary Math 2-A and Essentials YEAR Math & Elective Credit (10th) *Enrollment in both courses is required</p>	<p><u>Prerequisite:</u> Math Placement Test, teacher & counselor recommendation <u>Course Description:</u> This course is intended to increase student understanding and achievement by increasing time, intensity and access to high-cognitive rigor for on-grade level core standards. Students who need a slower pace, additional instruction and exposure to the course content will benefit from the course. Students will become proficient in gaining and building success in math skills. This course reinforces Secondary Math 1 concepts and prepares students to enter Secondary Math 3.</p>
<p>5305 - Honors Secondary Math 2 YEAR Math Credit (10th, 11th)</p>	<p><u>Prerequisite:</u> Secondary Math 1 <u>Course Description:</u> The focus of Secondary Mathematics 2 is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Secondary Mathematics 1 as organized into 6 critical areas. These units are: Extending the number system; Quadratic functions and modeling; Expressions and equations; Applications of probability; Similarity; Right triangle trigonometry, and proof; Circles with and without coordinates.</p>
<p>5400 & 5401 Secondary Math 3-A and Essentials YEAR Math Credit (11th, 12th) *Enrollment in both courses is required</p>	<p><u>Prerequisite:</u> Secondary Math 2, teacher & counselor recommendation <u>Course Description:</u> This course is for students who need a slower pace and additional instruction and exposure to the course content. Students will become proficient in gaining and building success in math and life skills, reinforcing Secondary Math 3 skills and preparing for college level mathematics.</p>
<p>5405 - Honors Secondary Math 3 YEAR Math Credit (10th, 11th, 12th)</p>	<p><u>Prerequisite:</u> Secondary Math 2 <u>Course Description:</u> This course will focus on pulling together and applying the accumulation of learning that students have from their previous math courses. They will apply methods from probability and statistics, expanding their repertoire of functions to include polynomial, rational, and radical functions, they will expand their study of right triangle trigonometry and will bring together all of their experience with functions and geometry to create models and solve contextual problems.</p>
<p>5850 - College Prep Math YEAR Math Credit (12th)</p>	<p><u>Prerequisite:</u> Secondary Math 3 <u>Course Description:</u> The course objectives are to convey the beauty and utility of mathematics and to illustrate some of its application to modern society. To the extent possible, the course will convey the qualitative literacy skill set. This course will center on topics including: proportional reasoning; linear and exponential modeling, geometry and scale factors; probability and expectations; statistical inference; and financial mathematics. Materials will be introduced to students in the form of real-life problems. The necessary mathematics will be developed using a just-in-time model.</p>

<p>5610 - CE Math 1010 Intermediate Algebra SEMESTER Math Credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> 1.Secondary Math 1,2,3 average grade of “C” 2. If not “C” average – must have ACT Math 21 score or Aleks:30-45</p> <p>WSU registration & course fees apply</p> <p><u>Course Description:</u> Inequalities (including absolute value and systems), systems of equations, applications (word problems), functions (inverse, exponential, and logarithmic), variations, factoring, rational expressions, radicals, complex numbers, quadratic equations, parabolas, circles, quadratic formula, formulas, properties and applications of logarithms.</p> <p>4 WSU credits - MATH 1010 / WSU Elective Credit</p>
<p>5620 - CE Math 1030 Quantitative Literacy SEMESTER Math Credit (12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> 1.Secondary Math 1,2,3 average grade of “C” 2. If not “C” average – must have ACT Math 21 score or Aleks: 46-100</p> <p>WSU registration & course fees apply</p> <p><u>Course Description:</u> Topics from mathematics that convey to the student the beauty and utility of mathematics, and which illustrate its application to modern society. Topics include counting, statistics, probability, growth and form.</p> <p>3 WSU credits - MATH 1030 / WSU Quantitative Literacy (QL) - General Ed.</p>
<p>5640 - CE Math 1050 College Algebra SEMESTER Math Credit (10th, 11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> 1. Secondary Math 1, 2, 3 average grade of “C”, AND 2. ACT Math score of 23 or higher, OR Taken WSU Accuplacer Test with CLM Score of 50-69 OR Passed CE Math 1010 with “C” or better</p> <p>WSU registration & course fees apply</p> <p><u>Course Description:</u> Solving equations and inequalities; complex number; functions and their graphs; transformations of functions; inverse functions; polynomial functions; rational functions and asymptotes; exponential and logarithmic functions; exponential and logarithmic equations; exponential growth and decay models; systems of linear and nonlinear equations; systems of inequalities; mathematical models and applications; counting techniques.</p> <p>4 WSU credits - MATH 1050 / WSU Quantitative Literacy (QL) - General Ed.</p>
<p>5660 - CE Math 1060 Trigonometry Semester Math Credit (10th, 11th, 12th)</p> <p>CE Fees: USU Admissions & \$5 per credit</p>	<p>USU registration & course fees apply</p> <p><u>Course Description:</u> MATH 1060 is intended to prepare students for entry into the Calculus sequence by providing rigorous coverage of trigonometric functions, trigonometric identities, and vector analysis. For concurrent enrollment credit, students must successfully complete Math 1050 with a “C” or better.</p> <p>2 USU credits - MATH 1060 / WSU Elective Credit</p>
<p>5905 - Math Lab SEMESTER Elective Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Math lab is designed to give students extra time to work on math in a setting with fewer students. Students have the opportunity for one-on-one time with a math teacher to get a better understanding of concepts and to get help with their assignments.</p>

Physical Education (PE)

(1.5 credits for graduation)

Athletic Sports Participation - Students may earn .5 credit for participation in a complete season of a UHSAA sanctioned sport. A letter from the coaching staff is required to receive credit.

<p>1030 - Fitness for Life SEMESTER Required PE Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> This course helps each student adopt a personal life-style that will help them achieve physical fitness through correct concepts of flexibility, cardiovascular endurance, strength, weight control, and nutrition and stress management. This class is required once for every student. This class is required for graduation.</p>
<p>1040 - Lifetime Activities Semester PE Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Students will acquire skills in a variety of lifetime activities that contribute to sustain fitness and well-being. Skills and activities offer position ways to cope with stress and contribute to the quality of life. Individual, dual, and team sports activities are included, with the emphasis on activities offering lifelong participation opportunities.</p>
<p>1070 - Hiking Semester PE Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> A physical activity course that allows students to learn and develop the skills needed to safely enjoy hiking through the use of trail resources. Parents/Guardians are required to join the myDSD CANVAS to know the expected meeting times and places for hikes. Depending on schedule needs, this course may take place outside of the regular school day and will have an online component.</p>

Released Time

<p>Released Time 850/Year No Credit (10th, 11th, 12th)</p>	<p>Parents may release students for religious instruction or other school-approved activities in any of the 8 class periods on either Block A or Block B throughout the regular school day.</p>
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Science

(4.0 credits for graduation)

4th YEAR SCIENCE CREDIT OPTIONS

In addition to regular science classes, the following can count as your 4th year of Science:

- Aerospace Engineering
- Digital Electronics Technology
- Principles of Engineering
- CS 1030 – Computer Science Principles
- CS 1040 – Computer Programming

LIFE SCIENCES

<p>6201 Honors Biology YEAR Science Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> The Honors Biology curriculum is designed to present an examination of the living world and related societal issues. Emphasis is placed on the scientific process, cells and cell processes, human anatomy, genetics, evolution, and ecology. It will provide an in-depth, lab-oriented approach to the biological sciences with an emphasis on practical encounters. Honors Biology investigates biological organization starting at a molecular level and culminating with living organisms and their evolutionary history.</p>
<p>6230 - AP Biology YEAR Science Credit (10th, 11th, 12th)</p> <p>Refer to the AP credit guide for college credit.</p>	<p><u>Prerequisite:</u> B or above grade in previous science class <u>Course Description:</u> AP Biology is an introductory college-level biology course. Students will cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes-energy and communication, genetics, information transfer, ecology, and interactions. The workload and grading standards are those of a college class rather than a high school class. This course will have MANDATORY AP Biology Lab after school hours. Students that successfully complete all lab requirements will receive an additional .5 High School Science credit. College credit may be obtained by successfully completing the course and by passing a required AP Examination in the Spring.</p>
<p>7309 - CE Medical Anatomy & Physiology YEAR Science Credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit Must purchase CE textbook</p>	<p>WSU registration & course fees apply <u>Course Description:</u> This course is designed to prepare students who are interested in health careers for advanced courses and training. Includes Human Anatomy and Physiology, Diseases and Disorders, Medical Terminology, Case Studies in Health Science, and speakers from various health professions. Additional costs may be assessed by the sponsoring university. Students are responsible for obtaining any books necessary for the class. 2 WSU credits - HTHS 1101 / WSU Elective Credit 3 WSU credits - HTHS 1120 / WSU Elective Credit - General Ed.</p>
<p>6262 - Zoology YEAR</p>	<p><u>Prerequisite:</u> Biology <u>Course Description:</u></p>

Science Credit (11 th , 12 th)	This course will introduce students to the tremendous diversity in Kingdom Animalia. It is designed to illustrate the basic principles of evolution, ecology, physiology, and behavior of animal life. The class will focus attention on evolutionary relationships, classification, anatomical structure and function, and roles in the environment. Laboratory practical work will be emphasized in both investigating living animal behavior and dissecting preserved specimens.
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7463 - CE – Foundations of Nutrition SEMESTER Science Credit (11th, 12th) CE Fees: WSU \$5 per credit Fees \$140.00 Book is required	WSU registration & course fees apply <u>Course Description:</u> In this course foundational concepts of nutrition will be taught at an accelerated pace and level. Students will expand their understanding of science, as well as focus on personal dietary principles and life-long health and well-being in the modern environment. 3 WSU credits - NURT 1020 / WSU Life Science (LS) General Ed.
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PHYSICAL SCIENCES

6401 - Honors Chemistry YEAR Science Credit (10th, 11th, 12th)	<u>Course Description:</u> An introductory course for students with no previous chemistry background. This is a lab oriented course which provides a background in chemistry for students interested in a career in science, engineering, medicine, nursing as well as those who would like to improve their basic scientific knowledge. Students will learn about atomic structure and forces, chemical formulas and equations, and an introduction to nuclear chemistry, acid & bases, thermochemistry, and electrochemistry.
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6450 - CE 1110 CHEM YEAR Science Credit (11th, 12th) CE Fees: WSU \$5 per credit	WSU registration & course fees apply <u>Prerequisite:</u> Honors Chemistry and Completion of Sec Math 2 - B grade or better <u>Course Description:</u> This course introduces general and some organic chemistry to students in nursing, engineering technology, and some other fields of science and health professions who will take no more than one year of chemistry at a university or college. This course requires lab participation and fees from WSU. 5 WSU credits - CHEM 1110 and 1115 / WSU Physical Science (PS) General Ed.
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6501 - Honors Physics YEAR Science Credit (10th, 11th, 12th)	<u>Course Description:</u> Designed for students planning college majors in non-technical fields, (e.g. the arts, social sciences, education, or business). The mathematical techniques used in this class include Algebra and some Trigonometry. The course is designed to encourage students to integrate physical-related ideas into their ways of thinking about the world and provide some of the tools needed to make intelligent decisions in a science-based culture. Emphasis is a problem-solving approach to motion, energy, heat, matter, sound, light, and electricity..
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6530 - AP Physics 1: Algebra-based	<u>Course Description:</u>
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<p>YEAR Science Credit (11th, 12th)</p>	<p>AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves.</p>
<p>361110 - CE Geology SEMESTER Science Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p>WSU registration & course fees apply (This course is taught by WSU staff) <u>Course Description:</u> Fundamental principles of geology emphasizing physical aspects of the Earth including earth materials, plate tectonics, and the effects of water, wind and ice on the Earth's surface. Useful for all students, and recommended as the first geology course for students with majors/minors in geosciences, science teaching, archeology, and pre-engineering. Three lectures per week. Optional field trip to observe local geologic features.</p> <p>3 WSU credits - GEO 1110 / WSU Physical Science (PS) General Ed.</p>
<p>7841 - Material Science YEAR Science Credit (11th, 12th)</p>	<p><u>Course Description:</u> This class will use the general application of math and science to analyze and study the characteristics and behavior of different types of materials such as composites (lightweight and high strength products such as materials used in the making of aircrafts), ceramics (glass), and polymers (plastics), and metals. The material taught in this class will be done through labs and discussions. It is a great introductory course for those students who are interested in science, technology, engineering, mathematics, or manufacturing. This will be a hands-on learning environment.</p>

Social Studies

(3.0 credits for graduation)

<p>4540 - World History YEAR Social Studies Credit (10th, 11th)</p>	<p><u>Course Description:</u> Students will learn about the contributions of major cultures and societies over time in the five major regions of the world: Middle East/North Africa, Asia, Africa, Europe, and the Americas. The course stresses the diverse economic, political, religious, and social systems that have shaped major world events and movements within these regions both past and present.</p>
<p>4591 - AP World History YEAR Social Studies Credit (10th, 11th, 12th) Refer to the AP credit guide for college credit.</p>	<p><u>Course Description:</u> This Advanced Placement, college level course, highlights the nature of changes, the causes and consequences, as well as comparisons among major societies. Relevant factual knowledge, in conjunction with leading interpretive issues and types of historical evidence, focuses on the past thousand years of global experience. Daily reading and study outside of class required. College credit is available by passing the AP test.</p>
<p>4550 - U.S. History YEAR</p>	<p><u>Course Description:</u></p>

Social Studies Credit (11 th)	This course devotes attention to the basic geographic, economic, social, and historic developments in the United States, with particular emphasis on the events of the 20 th Century. It also helps students develop an understanding of the Constitution, the American system of government, and the legal system as well as an appreciation of the major ethical considerations supported by American society over time.
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4555 - CE History 1700 SEMESTER Social Studies Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> B or above grade in previous Social Studies Class WSU registration & course fees apply <u>Course Description:</u> The course concentrates on major social, cultural, economic, and political developments as they unfold in the nation's history. Students will apply their historical analysis during class discussions, mock trials, debates, team presentations, and more. Persuasive writing and speaking skills are emphasized. This may be taken to complete the American Institutions requirement (grade of C or better required for Weber State credit). 3 WSU credits - HIST 1700 / WSU American Institutes (AI) General Ed.
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4566 - CE US GOV SEMESTER Social Studies Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	<u>Prerequisite:</u> B or above grade in previous Social Studies Class WSU registration & course fees apply <u>Course Description:</u> A study of American constitutional democracy at the national level, including political institutions, interests, ideals, and the processes through which policies are formulated and implemented. 3 WSU credits - POLS 1100 / WSU American Institutes (AI) General Ed.
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4560 - U.S. Government and Citizenship SEMESTER Required US Gov Credit (11 th , 12 th)	<u>Course Description:</u> The goal of this course is to foster informed, responsible participation in life. Knowing how to be a good citizen is essential to the preservation and improvement of democracy in the United States. Upon completion of this course, students will understand the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the US political system.
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Special Education

505 Learning Strategies YEAR Elective Credit (10 th , 11 th , 12 th)	<u>Course Description:</u> This course is only open to students that qualify for special education services. NUAMES High School Special Education program follows an inclusion model. Under this model students receive direct instruction and curriculum in the regular education setting.
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WSU - Early College

<p>700 - WSU SEMESTER Elective Credit (11th, 12th)</p>	<p><u>Course Description:</u> The NUAMES Early College Program is available to 11th and 12th grade students that meet admissions requirements, meet with WSU Dual Enrollment Advisors, and register for classes at Weber State University. Full Tuition and Fees apply to courses taken in the Early College Program. Scholarships are part of the program. Students add this course number as a placeholder in their NUAMES schedule for the time they will be attending Weber State University courses.</p>
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Off Campus Opportunities

<p>7912 - CTE Internship SEMESTER Elective Credit (11th, 12th)</p>	<p><u>Course Description:</u> This exciting course prepares students to become successful employees in the workforce while exploring career interests as they work with professionals in the community. The course curriculum focuses on developing employable skills and creating a professional portfolio so students can be career-ready! Internship is for juniors and seniors, is one semester, and is available both semesters. Internship application is required.</p>
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<p>600 - Home Release SEMESTER NO CREDIT (12th)</p>	<p><u>Course Description:</u> Requires permission form signed by counselor and parent. Students taking home release must be on-track to graduate. PARENT and COUNSELOR permission is required.</p>
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<p>Magnet Courses SEMESTER</p>	<p><u>Course Description:</u> Magnet courses are taught at other District High Schools. If NUAMES does not have a class of interest or the period that a class is offered does not fit your schedule, consider taking a Magnet course at another school. Students need to contact their neighborhood school to determine the class period they will take the magnet course. Students may magnet to another school for ONLY one course per semester.</p>
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<p>700 - Davis Tech / O-Tech Elective Credit (11th, 12th) Skills Training Courses</p>	<p>UTech registration & course fees may be required. Davis Technical College and Ogden Weber Technology College offer a wide variety of technical education programs. <u>Pre-requisites to apply:</u> NUAMES students interested in Davis Tech / O-Tech programs must be on-track for graduation. Students are required to provide their own transportation to Davis Tech / O-Tech. Students interested in participating in these programs should contact their NUAMES counselor for further information. Davis Technical College https://www.davistech.edu/ Ogden Weber Technical College https://www.otech.edu/</p>
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