



NORTHERN UTAH ACADEMY

FOR MATH, ENGINEERING & SCIENCE

Course Guide and Class Descriptions

2021-2022

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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@dmail.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, 2022.***

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.
-

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 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.
- Seniors complete the WBL form to begin the process.
- Contact Andrea Jones, the WBL Coordinator, for questions: andrejones@dstdmail.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 Learning Platforms

In-Person Learning (Face-to-Face):

- This format is recommended for all academic courses at NUAMES.
- Class attendance by student is required for each class session
- Classes available during the standard school day - Periods 1st - 8th

Hybrid Learning:

- In-person instruction is required some of the time
- Teacher pre-schedules dates and times when student meet together in-person
- Students have the flexibility to work on assignments and group projects outside of class
- Teacher/student set individual appointments for feedback and extra support

Virtual (synchronous) Learning: *Teaching and learning that happens at the same time 'in sync.'*

- At the same time (real time lectures/instruction)
- Structured learning
- Direct Instruction
- Student must log in at pre-scheduled times- Attendance is required
- Immediate engagement and feedback between teachers and students
- Group activities can be included, opinions and ideas can be shared with co-learners in real-time
- Weekly assignment deadlines

Online (asynchronous) Learning : Teaching & learning are not happening in real time

- The ability to schedule and learn at own pace
- Offers flexibility and student can work ahead and outside the constraints of time and place
- Weekly assignment deadlines
- No set times to log in and participate
- Can access course resources on demand
- No real time interaction
- Teacher is available through email, making Zoom appointments & on Fridays for extra support

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 has a few combinations of ONLINE Course Options Available:

IN-PERSON AND ONLINE COMBINATION:

1. Students can take a combination of in-person and online courses that make up a total of 8 periods.
2. Students can work on online courses independently following weekly assignment deadlines.
3. Standard course fees apply.

Courses Available Include:		
CE Intro to Music (11th and 12th only) CE Web 1700-Digital Survival Skills English 10 English 11 English 12 Health Education 2	World History US History US Government CE POLS 1100 (11th & 12th) Financial Literacy	Biology Zoology Fitness for Life (PE) Individual Lifetime Act. (PE) Driver's Education

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) Health Education 2 (.5)	Fit for Life (.5) Lifetime Activities (.5)	Driver's Education (.25)

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.

Recovery Credit Courses:		
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.

CUM LAUDE: (Bronze Cord)

- Student must have a cumulative grade point average (GPA) of 3.25 - 3.49 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 course 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 state colleges/universities. Register online at https://www.collegeboard.org/		X	X
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.shmoop.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 2010	P	12	SEM	ENGL 2010	3
INFORMATION LITERACY COMPOSITION (1 credit)							
WSU	*	CE Library Information Navigator Taken with English 2010	P	12	SEM	LIBS 1704	1
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		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
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	2

						HTHS 1120	3
TECHNOLOGY AND ENGINEERING							
WSU	7888/89	CE PLTW Intro to 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 / Social Science and Diversity (3)	3
AP Literature and Language	Score 3 / English 1010 (3) Score 4-5 / English 1010 (3) and English 2200 (3)	3 or 6

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 2010 (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	
Physical Science #1 (3 credits)	
CE Physics PHYS 1010	CE Geology- GEO 1110
AP Environmental Science (9th grade)	
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>	

Master List of NUAMES Courses

North Campus 2021-22

ART			
2110	Drawing 1	sem	10, 11, 12
2107	Painting 1	sem	10, 11, 12
7696	Basic Digital Photography	sem	10, 11, 12
2130	CE - Studio Art 1030	sem	11, 12
2132	CE - Art History 1010	sem	11, 12
7765	CE - CS 1010 Game Dev	sem	10, 11, 12
2322	CE - Intro to Music Online	sem	11, 12
7752	Intro to Digital Graphic Arts	sem	10, 11, 12

BUSINESS/MARKETING			
7530	CE - Digital Survival Skills	sem	10, 11, 12
7525	CE - Business Management	sem	10, 11, 12
7542	Entrepreneurship	sem	10, 11, 12
7912	CTE Internship	sem	11, 12

FINANCIAL LITERACY			
7075	General Financial Literacy	sem	10, 11, 12
341010	CE - Finance 1010	sem	11, 12

ENGLISH			
4080	English 10	YR	10
4100	English 11	YR	11
4150	English 12	YR	12
4315	AP Literature & Composition	YR	11, 12
4295	CE - English 1010	sem	12
4300	CE - English 2010	sem	12

MATHEMATICS			
5301	Secondary Math 2 Essentials	YR	10
5300	Secondary Math 2 - A	YR	11
5300	Secondary Math 2	YR	12
5400	Secondary Math 3	YR	11, 12
5400	Secondary Math 3 - A	YR	12
5401	Secondary Math 3 Essentials	YR	12
5850	College Prep Math	YR	12
5610	CE 1010 - Inter. Algebra	sem	11, 12
5620	CE 1030 - Quantitative Literacy	sem	12
5640	CE 1050 - College Algebra	sem	11, 12
5660	CE 1060 - Trigonometry	sem	11, 12
5905	Math Lab	sem	10, 11, 12

SOCIAL STUDIES			
4540	World History	YR	10
4591	AP World History	YR	10, 11, 12
4550	United States History 2	YR	11
4555	CE History 1700	sem	11, 12
4560	US Gov & Citizenship	sem	11, 12
4566	CE US Gov & Citz. POLS 1100	sem	11, 12

FOREIGN LANGUAGE			
3110	Spanish 1	YR	10, 11, 12
3136	CE Spanish 1020	sem	10, 11, 12
3181	CE Spanish 1010	sem	10, 11, 12

ENGINEERING			
7888/89	PLTW - CE Intro to Engineering	YR	10, 11
7890/91	PLTW - CE Prin. Of Engineering	YR	11, 12
7892/93	PLTW - CE Digital Electronics	YR	11, 12
7894/95	PLTW - CE Civil Engineering	YR	11, 12

ENGINEERING COMPUTER SCIENCE			
7718	CS 1030 - CE Computer Science	sem	10, 11, 12
7736	CS 1400 - CE Programming 1	sem	10, 11, 12
7737	CS 1410 - CE Advanced Programming	sem	11, 12
7711	CS 2420 - CE Algorithms & Data Structure	sem	11, 12

SCIENCE			
6300	Earth Science	YR	10, 11, 12
6201	Honors Biology	YR	10, 11, 12
6401	Honors Chemistry	YR	10, 11, 12
6501	Honors Physics	YR	10, 11, 12
6540	CE Physics 1010	YR	11, 12
6262	Zoology	YR	11, 12
7309	Medical Anatomy & Physiology	YR	11, 12
7463	CE Foundations of Nutrition	sem	11, 12
361110	CE - Geo 1110 PS Phys Geology	sem	11, 12

PE/HEALTH			
1030	Fitness for Life	sem	10, 11, 12
1040	Lifetime Activities	sem	10, 11, 12
1010	Health Education 2	sem	10, 11, 12
7308	Introduction to Health Science	YR	10, 11, 12
1070	Hiking	sem	10, 11, 12

DRIVER EDUCATION			
1100	Driver Education	sem	10, 11, 12

CE ELECTIVES			
4290	CE Comm 2110	sem	11, 12
7303	CE Emergency Medical Response	sem	11, 12
7896	CE Engineering Capstone	sem	11, 12
7311	CE MAP Case Studies	sem	11, 12
4573	CE Psychology 1010	sem	11, 12

ELECTIVES			
210	Office Assistant	sem	10, 11, 12
211	Teacher Assistant	sem	10, 11, 12
400	Study Skills	sem	10, 11, 12
407	NUAMES Way	sem	10, 11
700	Davis ATC/OTech	sem	11, 12
700	Weber State - Early College	sem	11, 12
4335	Creative Writing	sem	10, 11, 12
4365	Yearbook	YR	10, 11, 12
4570	Psychology	sem	10, 11, 12
4600	Current Issues	sem	10, 11, 12
7690	Law Enforcement	sem	10, 11, 12

RELEASE TIME			
850	Release Time - NO CREDIT	YR	10, 11, 12

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 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>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 video production, beginning with artistic expression. The class will work with composition, rule of thirds, emphasis, message conveyance, delivery and professionalism. Connecting to the computer, the student will download both still shots and video onto Adobe Photoshop, Adobe Illustrator, and Adobe Premiere to manipulate, print, and edit their final images. Pre-edit, shooting, and post editing will be a part of the learning experience. <i>Digital camera required.</i></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) CE Fees: WSU \$5 per credit</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. 3 WSU Credits - MUSC 1010 / WSU Creative Art (CA) General Ed.</p>

<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 <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 <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 <u>Course Description:</u> This course examines and analyzes the history, philosophy, and impact of digital entertainment (video and computer games along with simulations) on an individual and society. Students take a critical look at the artistic, but also the cultural, economic and social aspects of this expressive medium. Students imagine and articulate their own ideas and work through a series of projects helping them understand the creative challenges behind interactive entertainment design. 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 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</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</p>
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Elective Credit (11 th , 12 th) CE Fees: WSU \$5 per credit	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.
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7542 - Entrepreneurship CE ENTR 1002 SEMESTER Elective Credit (11th, 12th) CE Fees: WSU \$5 per credit	<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
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7912 - CTE Internship SEMESTER Elective Credit (11th, 12th)	<u>Course Description:</u> This exciting work-based learning course prepares high school 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. The course curriculum correlates with the student’s internship experience and focuses on workplace skills and issues. <ul style="list-style-type: none"> • Internship application is required. Students will need to find their own internship location.
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Davis Tech / O-Tech

700 - Davis Tech / O-Tech Elective Credit (11 th , 12 th) Skills Training Courses	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/
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Driver’s Education

1100 - Driver’s Education - Online SEMESTER Elective Credit (10 th , 11 th , 12 th) Course Fees:	<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).
Students who turn 16 between:	Register for:

\$165 Regular school day \$250 Outside of the regular school day	Summer and February 29th March 1st and August 31st	1st Semester 2nd Semester
	Any student interested (must be at least 15 & have a learner permit)	Summer
<p>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.</p>		

Electives

407 - NUAMES Way SEMESTER Elective Credit Required for Grade 10	<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 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.
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/probable 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> Psychology is an exciting and comprehensive course that will help students gain a relevant understanding of the complex nature of human behavior, thought and the science behind the efforts of professionals who work in fields relating to this discipline.
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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. Students are encouraged (but not required) to attend a yearbook camp in Logan during the final week of June.
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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.
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400 - Study Skills SEMESTER ELECTIVE CREDIT (10 th , 11 th , 12 th)	<u>Course Description:</u> 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

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> A general introduction to the basics of human behavior from the perspective of modern scientific psychology. We will review what psychology has to say about: personality, motivation, learning, memory, thinking, intelligence, sensation & perception, human development, the brain and physiology of behavior, psychological problems & treatment, language, social interaction, group behavior, and consciousness. 3 WSU credits - PSY 1010 / WSU Social Sciences (SS) - General Ed.
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<p>4290 – CE Interpersonal Communications SEMESTER Elective Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p>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. 3 WSU credits - COMM 2110 / WSU Humanities (HU) - General Ed.</p>
<p>7303 -CE Emergency Medical Response SEMESTER Elective Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p>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-health care professional who has a duty to respond in an emergency. Provides more skills and in-depth training than the First Aid: Responding to Emergencies course. Course leads to American Red Cross certification in Emergency Response and CPR for the Professional Rescuer. 3 WSU Credits - HLTH 2300 / WSU Elective Credit - General Ed.</p>
<p>7311 - CE Case Studies in Medicine SEMESTER Science Credit (11th, 12th) CE Fees: WSU \$5 per credit Must purchase CE textbook</p>	<p>WSU registration & course fees apply <u>Prerequisite:</u> CE Medical Anatomy & Physiology or AP Biology <u>Course Description:</u> This course is designed for students wishing to explore the interdisciplinary nature of health care using case study models. Each case study focuses on a disease process. Progression through each case study involves a review of anatomy and physiology, pathophysiology, medical terminology, and a study of a variety of health professionals including their educational and training requirements. Additionally, the student will explore key medical diagnostic tests (e.g. laboratory, imaging) used in patient disease diagnosis, management, and prevention. The course emphasizes the importance of the team approach to patient care. 3 WSU credits - HTHS 1120 / WSU Elective Credit - General Ed.</p>
<p>7896 CE Engineering Capstone SEMESTER (11th, 12th) 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. Membership in TSA and/or Robotics is encouraged. 3 WSU Credits - PDD 2830 / WSU Elective Credit - General Ed.</p>

Engineering

(2 years required for graduation)

<p>7888/89 – CE PLTW Introduction to Engineering Design (IED) YEAR Engineering Credit (10th, 11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Course Description:</u> This class is required for all 10th graders and new incoming 11th graders. In this foundational course, students are taught to understand and apply the design process, create sketches, use computer software to design models, understand mass property calculations and parametric modeling, understand cost analysis, quality control, staffing needs, packing and product marketing, explore career opportunities in design engineering and understand what skills and education these jobs require, and develop portfolios to display their designs and present them properly to peers, instructors and professionals. Membership in TSA is encouraged. 3 WSU Credits - PDD 1010 / WSU Elective Credit - General Ed.</p>
<p>7890/91 – CE PLTW Principles of Engineering (POE) YEAR Engineering Credit (10th, 11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> Intro to Engineering Design (IED) <u>Course Description:</u> POE is an introduction to some of the major concepts that students will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. PoE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning. Used in combination with a teaming approach, learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. Membership in TSA is encouraged. 2 WSU Credits - ENGR 1000 / WSU Elective Credit - General Ed.</p>
<p>7892/93 – CE PLTW Digital Electronics Technology (DE) YEAR Engineering Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> Intro to Engineering Design (IED) or Principles of Engineering (POE) <u>Course Description:</u> DE is an introduction to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games, and computers. Students use industry-standards computer software in testing and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs. Students use mathematics and science in solving real-world engineering problems. Membership in TSA is encouraged. 6 WSU Credits - EET1110 and EET 1130 / WSU Elective Credit - General Ed.</p>
<p>7894/95 – CE PLTW Civil Engineering YEAR Engineering Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> Intro to Engineering Design <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.</p>

Engineering - Computer Science

(Courses count towards 2 years Engineering Credit)

<p>7718 - CE Computer Science Principles SEMESTER Engineering Credit (10th, 11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> 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 and a brief broad overview of other topics they might encounter within a Computer Science curriculum. 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.</p>
<p>7736 - CE Comp. Programming I SEMESTER Engineering Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> CS 1030 CE Computer Programming I WSU registration & course fees apply <u>Course Description:</u> 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.</p>
<p>7737 - CE Advanced Computer Programming SEMESTER Engineering Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> CS 1400 Computer Programming II 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.</p>
<p>7711 - CE Algorithms & Data Structure SEMESTER Engineering Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> CS 1410 Computer Programming II. 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.</p>

English

(4.0 credits for graduation)

4080 - 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. The students will use the entire writing process to develop skills in writing narratives, informative papers, character sketches, persuasive essays and research reporting using non-traditional materials. The students will study world literature including the in-depth study of novels and short stories. Grammar and usage, including daily oral language exercises, will be emphasized.
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4100 - English 11 YEAR English Credit (11 th)	<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 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. Students will prepare for college entrance exams by focusing on grammar, mechanics, usage and daily oral language exercises.
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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.
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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.
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<p>4295-CE English 1010 SEMESTER English Credit (12th) CE Fees: WSU \$5 per credit</p>	<p><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.</p>
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<p>4300 - CE English 2010 CE Info. Literacy SEMESTER English/Elective Credit (12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisites:</u> CE English 1010 (To skip CE English 1010 student needs 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 2010 / WSU Composition - General Ed. LIBS 1704 / WSU Information Literacy - General Ed.</p>
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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>
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<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. 3 WSU Credits - FIN 1010 / WSU Elective Credit - General Ed.</p>
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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 - 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. 3 WSU Credits - SPAN 1010 / WSU Elective Credit - General Ed.</p>
<p>3136 - CE Spanish 1020 YEAR Elective Credit (10th, 11th, 12th) WSU \$5 per credit</p>	<p><u>Prerequisite:</u> Spanish 2 <u>Course Description:</u> 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. 3 WSU Credits - SPAN 1020 / WSU Elective Credit - General Ed.</p>

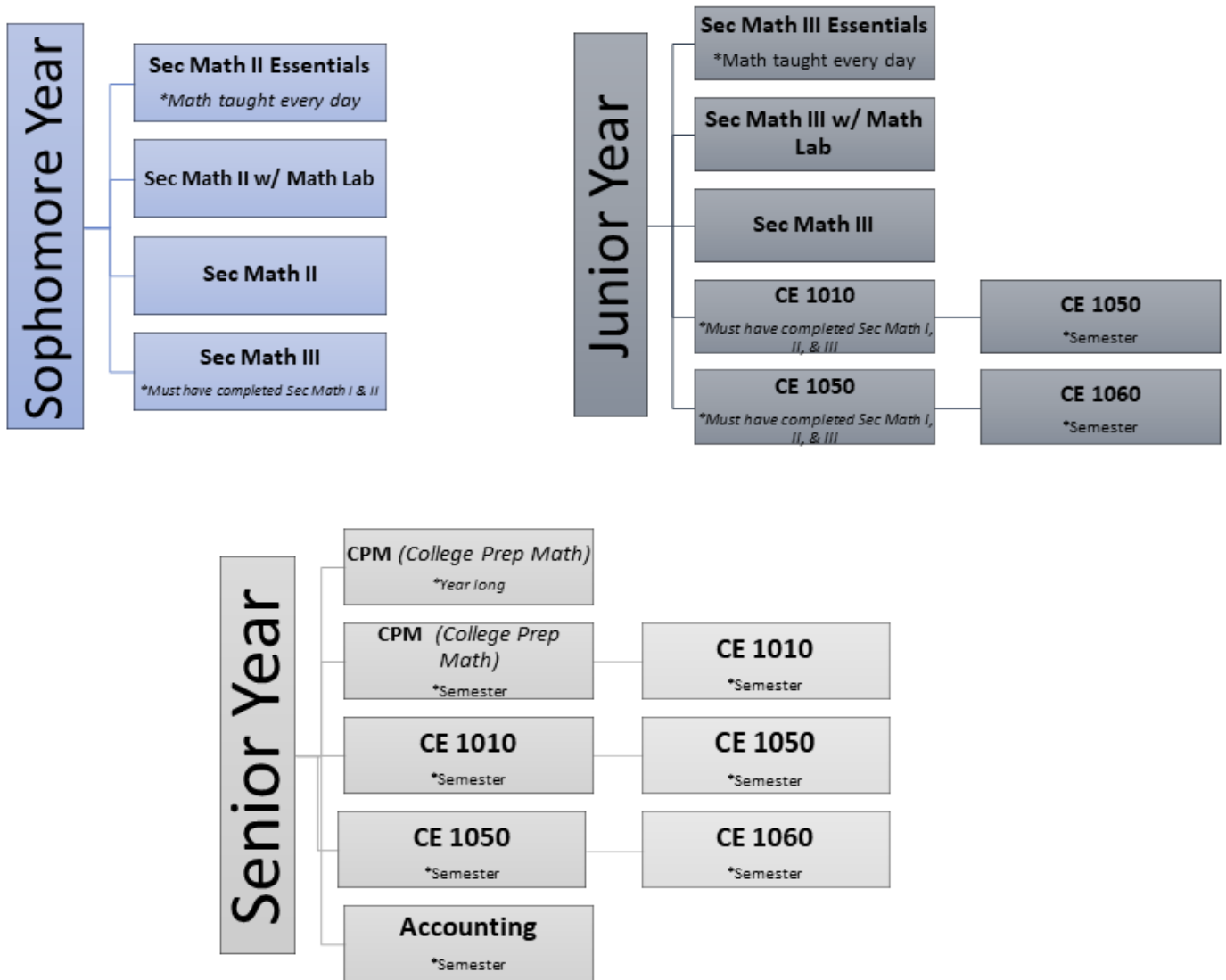
Health

(.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>
<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>

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 skills and prepares students to enter Secondary Math 3.</p>
<p>5300 - Secondary Math 2 YEAR Math Credit (10th, 11th)</p>	<p><u>Prerequisite:</u> Secondary Math 1 <u>Course Description:</u> The focus of Mathematics 2 is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics 1 as organized into 6 critical areas, or units. 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>5400 - 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 they have from their previous course. 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> College Prep Math formalizes and reinforces concepts from the Secondary Mathematics series to provide students with the foundational skills and understanding prerequisite to College Algebra (1050). Students will reason abstractly and quantitatively while solving linear and quadratic equations and linear inequalities. They will efficiently use polynomial and rational expressions and functions, radicals and complex numbers, and exponential and logarithmic expressions and functions to model and solve mathematical problems. They will explore conic sections and represent parabolic data.</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 completed 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:

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>7309 - CE Medical Anatomy & Physiology YEAR Science Credit (11th, 12th) 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</p>
<p>6262 - Zoology YEAR Science Credit (11th, 12th)</p>	<p><u>Prerequisite:</u> Biology <u>Course Description:</u> 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.</p>

<p>7463 - CE – Foundations of Nutrition SEMESTER Science Credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit Fees \$140.00 Book is required</p>	<p>WSU registration & course fees apply</p> <p><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.</p> <p>3 WSU credits - NURT 1020 / WSU Life Science (LS) General Ed.</p>
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PHYSICAL SCIENCES

<p>6300- Earth & Space Science YEAR Science Credit (10th, 11th, 12th)</p>	<p><u>Course Description:</u> Earth and space science investigates the processes and mechanisms that have resulted in the formation of our Earth, galaxy, and universe. Students develop models to illustrate the life span of the Sun and the role of nuclear fusion releasing energy in the Sun's core. Students analyze and interpret data to construct an explanation for Earth's 4.6 billion year history and explore changes to Earth's systems. Students develop and use a model of Earth's interior to describe the cycling of matter by thermal convection. Students plan and carry out an investigation on the properties of water to determine its effects on Earth materials. Students use computational thinking to explain sustainable and natural resources, focusing on responsible stewardship. Additionally, students design and evaluate solutions to problems that exist in these areas.</p>
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<p>6401 - Honors Chemistry YEAR Science Credit (10th, 11th, 12th)</p>	<p><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, acid, bases, salts and an introduction to organic chemistry.</p>
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<p>6501 - Honors Physics YEAR Science Credit (10th, 11th, 12th)</p>	<p><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, heat, matter, sound, light, electricity, and astrophysics.</p>
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<p>6540 - CE Physics YEAR Science Credit (11th, 12th)</p> <p>CE Fees: WSU \$5 per credit</p>	<p>WSU registration & course fees apply</p> <p><u>Course Description:</u> A brief survey of physics at the introductory level. Topics covered include laws of motion, gravity, energy, light, heat, sound, electricity, magnetism, atomic and nuclear physics, radioactivity, and relativity.</p> <p>3 WSU credits - PHYS 1010 / WSU Physical Science (PS) General Ed.</p>
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<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, archaeology, 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>
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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>
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<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>
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<p>4550 - U.S. History YEAR Social Studies Credit (11th)</p>	<p><u>Course Description:</u> 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 20th 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.</p>
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<p>4555 - CE History 1700 SEMESTER Social Studies Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><u>Prerequisite:</u> B or above grade in previous Social Studies Class WSU registration & course fees apply <u>Course Description:</u> An analysis of American civilization that traces social, cultural, economic, and political developments in the United States. May be taken to complete the American Institutions requirement with a university (grade of C or better required). 3 WSU credits - HIST 1700 / WSU American Institutes (AI) General Ed.</p>
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<p>4566 - CE US GOV SEMESTER Social Studies Credit (11th, 12th) CE Fees: WSU \$5 per credit</p>	<p><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.</p>
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<p>4560 - U.S. Government and Citizenship SEMESTER Required US Gov Credit (11th, 12th)</p>	<p><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.</p>
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Special Education

<p>505 Learning Strategies YEAR Elective Credit (10th, 11th, 12th)</p>	<p><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.</p>
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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 work-based learning course prepares high school 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. The course curriculum correlates with the student's internship experience and focuses on workplace skills and issues.</p> <ul style="list-style-type: none"> • Internship application is required.
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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>
<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. Please see your counselor for course offerings prior to the first day of school. Students may magnet to another school for ONLY one course per semester.</p>
<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>