



# NORTHLAND

SCHOLARS ACADEMY

*2018-2019*  
*Course Description Book*

**“ACCELERATED PATHWAY THROUGH  
ADVANCED LEARNING”**

Dear Parents and Students:

Each day we see or hear of exciting new products, changes, procedures, or applications, employed in the world around us. A new paradigm exists in this Information Age. What was once the standard, is no longer acceptable. New innovations and approaches to problem solving are directly influencing our challenges and opportunities. Our students must be ready to meet these challenges as they enter the post-secondary world. Business and industry are looking for dedicated, critical thinkers who are able to adjust as situations arise. The challenges and changes they encounter will provide each of them with opportunities for growth and success. It is not enough to recognize the opportunities, action will be required which will be dependent upon preparation. This means, individuals have to be proactive in the pursuit of educational excellence. Expect and accept only the very best from one's efforts. Competition for life's opportunities will be intense and only those individuals who have prepared wisely will reap the most. History has shown time and again that there is a direct correlation between the quantity and quality of life's opportunities and the quality and effort of one's education. Northland Scholars Academy has created rigorous, individualized academic pathways focused on our students' personal goals through the application and implementation of Individual Learning Plans (ILPs).

This Course Description Booklet has recommended and required course selections for freshmen, sophomores, juniors, and seniors. In addition, there are brief summaries for all courses. Staff members can be very helpful in answering specific questions on courses offered within their discipline. In creating your ILP, it is important to align short-term selections to long-term goals; getting staff input is critical to this process. Remember, today's lost chances impair tomorrow's choices and opportunities. If you have any questions regarding scheduling and the development of your ILP, please contact your guidance counselor and/or academic advisor. In addition, you are always welcome to see me; my door will always be open for you.

Robert A. King  
Head of School

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# GENERAL INFORMATION



## Graduation Requirements



All students must complete the graduation requirements as established by Northland Scholars Academy to be eligible for the Northland Scholars Academy Diploma. Students must obtain approval from the Head of School/principal prior to enrolling in courses for credit which are not offered by Northland Scholars Academy. Students will not be permitted to participate in commencement exercises until all requirements and obligations are completed. This includes fees, fines, and classroom materials and detention time owed. Students need to earn 24 credits to be eligible to graduate from Northland Scholars Academy. The following **REQUIRED** credits are specified by content area.

### English:

Freshmen English (year course) .5 credit/semester	1.0 credit
Sophomore English (year course) .5 credit/semester	1.0 credit
Junior Electives (semester & year courses) .5 credit/semester	1.0 credit
Senior Electives (semester & year courses) .5 credit/semester	1.0 credit
<b>Required Credits:</b>	<b>4 credits</b>

### Social Studies:

American History - Freshmen (year course) .5 credit/semester	1.0 credit
American Government & AM Gov II- Sophomore (sem. courses) .5 credit each	1.0 credit
Junior Electives (semester & year courses) .5 credit/semester	1.0 credits
Senior Electives (semester & year courses) .5 credit/semester	1.0 credit
<b>Required Credits:</b>	<b>4 credits</b>

### Mathematics:

Freshmen Elective - (year course) .5 credit/semester	1.0 credit
Sophomore Elective - (year course) .5 credit/semester	1.0 credit
Junior or Senior Electives - (semester & year courses) .5 credit/semester	1.0 credit
<b>Required Credits:</b>	<b>3 credits</b>

### Science:

Chemistry Required - (year course) .5 credit/semester	1.0 credit
Biology Required - (year course) .5 credit/semester	1.0 credit
Junior or Senior Electives (semester & year courses) .5 credit/semester	1.0 credit
<b>Required Credits:</b>	<b>3 credits</b>

### Physical Education:

Freshmen Elective - (semester course) .5 credit	.5 credit
Sophomore Elective - (semester course) .5 credit	.5 credit
Junior or senior Recreation Education Elective .5 credit/semester	.5 credit
<b>Required Credits:</b>	<b>1.5 credits</b>

### Health Education:

Health Required – (semester course) .5 credit/semester	.5 credit
<b>Required Credits:</b>	<b>.5 credit</b>

Required Credits Needed:

16 credits

Elective Credits Freshmen-Senior Needed:

8 credits

**Total Credits Needed to Graduate:**

**24 credits+**

**+A minimum of 20 hours of Community Service is required.** To be recommended for NSA's high school diploma, a student must fulfill and pass the above listed minimum requirements and complete a minimum of 20 hours of Community Service. Community Service is foundational for preparing students to be "Global Citizens".

## POST-SECONDARY SCHOOL INFORMATION

### TECHNICAL COLLEGE ADMISSION

Technical college programs have admission standards and placement testing. Some popular programs have waiting lists for entry into them. Students are encouraged to apply early and seek advice from your NSA counselor as well as the college counseling office regarding your program options. Technical college preparation should include a comprehensive high school curriculum to better ensure success. English credits should reflect an emphasis in work-related writing skills.

Recommended Preparatory Course Work:

<u>COURSE</u>	<u>CREDITS</u>
English	4
Math	2-3
Science	2-3
Social Studies	3
Tech Courses	3-4

### UNIVERSITY OR COLLEGE ADMISSION

Most four year colleges and universities have admission standards which include grade point average, class rank, ACT scores and the student's high school transcript. Students are encouraged to apply early and seek advice from your NSA counselor or academic advisor as well as the college counseling office regarding your program or major options. College preparation should include a comprehensive or college prep high school curriculum to better ensure success. Math courses must include Algebra I, Advanced Algebra and Geometry. Science courses require lab experiences and college prep electives include foreign language, fine arts and computer education courses.

Recommended Preparatory Course Work:

<u>COURSE</u>	<u>CREDITS</u>
English	4
Math	3
Science	3
Social Studies	3
College Prep Electives	3-4
Foreign Language	2-3
Fine Arts	1

Students are encouraged to check for specific requirements from the post-secondary institution of their choice. Unless prompted by their post-secondary admissions staff, students are encouraged to take the ACT Assessment Test including the writing component in the spring of their junior year. NSA staff will provide several ACT prep hours in the winter and spring. Student Services will assist students in developing and adjusting individual ILPs and associated Pathway.

## SCHEDULING INFORMATION

### ENROLLING

Students who wish to enroll at Northland Scholars Academy may make an appointment with administration or go on-line and complete NSA's Application. This action requires parent/guardian involvement. An application fee and a tuition deposit are due with the submission of the student application. Information about courses and credits can be found in this Course Description Book, as well as from the administration offices. Prior to scheduling, an official copy of the student's transcript(s), immunization records, completed application, and authorization packet must be on file in the NSA Student Services office.

## COMMENCEMENT

In addition to completing the minimum requirements for a diploma and prior to taking part in commencement exercises, students must pay all fees and fines, return all books, school equipment, materials and complete any detention time owed. This requirement is supported by the courts i.e., (Fowler v. Williamson).

## STUDENT SCHEDULES

All students must be scheduled for and maintain a minimum of six courses. Students are not allowed to schedule more than one study period per semester. Students are strongly encouraged to enroll in seven courses. In extreme cases, a waiver of the above rules may be issued by the Head of School and/or principal. **ALL INTERNATIONAL STUDENTS MUST MAINTAIN A MINIMUM OF SIX CLASSES IN ORDER FOR THEIR VISA TO REMAIN IN FULL STATUS.**

## COURSE WITHDRAWALS & SCHEDULE CHANGES

Students are encouraged to develop their Individual Learning Plans (ILP) and subsequent schedules carefully. Selecting a course is a commitment on the part of the student to the teacher, NSA, and our post-secondary partner. Instructional assignments and class sections are determined by the commitments from the students. Dropping classes is time consuming, expensive, and disruptive to the entire educational process. For these reasons and more, students are discouraged from withdrawing from a course. Therefore, all course withdrawals will be refused unless there are extenuating circumstances which warrant a change in the student's ILP and schedule. The following reasons are examples, which would warrant a scheduling change:

The student.....

- \* failed a course, which would affect the scheduling sequence.
- \* needs a course to meet graduation requirements.
- \* had scheduling or placement errors.
- \* needed a change in the student's ILP.
- \* change in college major, adding a class to increase academic rigor.

All schedule change requests will be evaluated by the school counselor and/or dean of students. All drops must be submitted on the appropriate form to Student Services by the end of the fifth school day in each semester. Students are reminded they are required to enroll in and finish a MINIMUM of six full credit courses each year. The minimum academic schedule each semester is six courses or 3 credits. It is recommended students take seven credits and have classes seven periods of the day with one period for study.

## GRADES & GRADE POINT

Students taking three credits or more per semester and earning an academic average between 3.5 and 4.0 are listed on the A honor roll for that quarter. Students earning an academic average between 3.0 and 3.49 are listed on the B Honor roll. If the student has an incomplete at the time of computing G.P.A's the student is not considered eligible for honor roll for that semester, unless the administration determines there are extenuating circumstances outside the student's control.

### **Grade points for 1 credit courses on a 4.0 system:**

A	4.000	A-	3.667
B+	3.333	B	3.000
B-	2.667	C+	2.333
C	2.000	C-	1.667
D+	1.333	D	1.000
D-	0.667	F	0.000
Inc.	0.000		

## INCOMPLETES

All incompletes must be made up within two weeks following the mailing date of report cards per quarter. Work not made up will be changed to an "F" unless there is a verified medical or other legitimate reason not to do so. This decision will be made by the NSA's Head of School and/or principal.

## CURRICULAR MODIFICATIONS

Students, parent/guardians, may request modifications in the student's education program. However, schools are not required to provide modifications. {WI Statute 118.15 (1) (f)}

# **NORTHLAND SCHOLARS ACADEMY TRANSFER STUDENT ADMISSION PROCEDURES**

These procedures apply to students who enter or re-enter Northland Scholars Academy after having participated in an outside educational program.

## **Definitions**

In these procedures, unless the context clearly requires otherwise:

- Private school means an institution with a private educational program that meets all of the criteria under s. 118.165(1) or is determined to be a private school by the state.
- Home-based Private Educational Program means a program of educational instruction provided to a child by the child's parent or guardian or by a person designated by the parent or guardian as defined under s.115.001 (3)(g). An instructional program provided to more than one family unit does not constitute a Home-Based Private Educational Program.

## **Records Information**

Students transferring to Northland Scholars Academy shall provide the school with identifying information (i.e., name, date of birth, chronological age, address); summary of development background; record of immunization and illness; academic achievement; subjects completed; credits earned; and the results of standardized testing. Students shall be placed in the appropriate grade level and/or courses as indicated by the records provided to NSA.

In addition, students who have been in attendance in a Home-Based Private Educational Program for a period of ninety (90) calendar days or more shall furnish the principal, or designee, with the following documentation of the Home-Based Private Educational Program:

- A copy of Home-Based Private Educational form: Wisconsin EPI Form PI-1206 (Rev. 1- 86).
- A copy of the school calendar that verifies that each school term of Home-Education instruction consisted of a minimum of 875 hours (W.S. s. 118.165(1)).
- Copies of the sequential curriculum that was taught in the six (6) mandated subject areas (s. 118.165(1)(d)).
- Records of student performance for each course taken.

## **Placement**

Upon receipt and review of the above documentation, the principal, or designee and placement team may require that a placement examination evaluation be completed so that the student will be placed at the appropriate grade level. This evaluation may consist of:

- Achievement tests
- Diagnostic tests
- Criterion referenced tests
- Mental abilities tests
- Parent curriculum check list
- Counselor/Academic Advisor interview

The placement team may consist of the principal or designee, guidance counselor, appropriate department chairs, and/or school psychologist. In making the placement decision under the above provision, the principal, or designee, and placement team, may also consider the age, mental ability, social and emotional development, and academic progress of the student. Placement shall be discussed with an adult student, parent or legal guardian before becoming effective.

## **Home-Based Classes for Credit and Grades**

Students entering NSA from a home-based educational program will be allowed to enter only at the beginning of the semester. The principal may make exceptions, if there are extenuating circumstances.

Core Classes (English, Social Studies, Math, Science) taken while on a home-based educational program shall be recorded with credit value and a grade of S (Satisfactory) on the official NSA transcript if the following documentation to the principal or designee is provided:

1. Written course curriculum
2. Calendar showing instructional hours and evidence of student attendance
3. Evidence of evaluation process used (i.e., a portfolio, tests, grades, etc.)
4. Standardized test recognized by the principal or designee taken and student knowledge shown in the result of the test.

Non-Core Required Classes (Computer Fundamentals, Health, Physical Education, Life Skills, Fine Arts) Credit value will be recorded on the transcript when the same documentation for the core classes is presented. If a standardized test is not available to take, then the knowledge of the student will be based on the portfolio of work or a demonstration of skill (i.e., computers). Each class credit value will be evaluated by the principal or designee on an individual basis. A satisfactory will be recorded on the transcript.

NSA credit for home-based classes will only be awarded on the NSA transcript if Northland Scholars Academy students have the same opportunity to achieve those credits.

### **Appeals**

A parent or legal guardian or an adult student may appeal a student placement in writing to NSA's Head of School and/or principal. The principal, or designee, will review the placement. The decision or placement will be made by the principal, or designee, and will be considered as final by all parties.

### **Probation Period**

Students placed under these procedures shall be subject to a probationary period of thirty (30) school days to determine whether original placement was in the best interests of the student. If NSA's Head of School and/or principal, or designee deems a reviewed placement necessary to the best interests of the student, the Head of School and/or principal, or designee, shall make such placement within fifteen (15) school days after the probationary period ends.



# COURSE DESCRIPTIONS 2018-2019

All students are encouraged to carefully select their courses and align choices to their ILP and their personal Pathway to future goals.

## ENGLISH

### FRESHMEN ENGLISH - 1000/1005

Year Course	1/2 credit per semester
Required for graduation	Required for ALL freshmen
Prerequisites:	None

Freshmen English is designed to introduce students to the study of literature and language through reading, writing, and speaking. This course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including the novel, nonfiction, short story, poetry, and drama. Students will be required to create original pieces of writing and reflect on assigned readings. Students will create and orate short speeches. Students will explore learning in groups and practice effective group management techniques. The primary objective of this class is to expose students to a variety of literature and the various ways of analysis and synthesis. This is a foundational class for future English courses. The textbook anticipated to be used in this course is: *McDougal Littell Literature, Grade 9* and Language Network, Grade 9 *McDougal Littell*.

### SOPHOMORE ENGLISH - 1050/1055

Year Course	1/2 credit per semester
Required for graduation	Required for ALL sophomores
Prerequisites:	Freshmen English or equivalency

Sophomore English continues to build on the skills used in Freshmen English but focusing more on grammar, sentence structure, and literary terminology. Readings and writing assignments will be more in-depth in rigor and scope than Freshmen English. Students will deliver informative and persuasive speeches to increase their oral communication skills. Students will practice ACT, SAT, and TOEFL listening, writing, vocabulary, and comprehension exercises to help prepare them to take any standardized exams. The textbook anticipated to be used in this course is: *McDougal Littell Literature, Grade 10* and Language Network, Grade 10 *McDougal Littell*.

### AMERICAN LITERATURE I - 1350

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	None

American Lit I is a study of the literature of early America from Colonial America through the Civil War. This study will look at novels, short stories, poetry, drama, essays, and biographies. The course will include analysis, discussion, research, and composition. The class is designed to develop an appreciation for American literary heritage and study the events which have influenced American writers. Notable writers that may be addressed: Washington Irving, Edgar Allen Poe, Ralph Waldo Emerson, Henry David Thoreau, Harriet Beecher Stowe, Frederick Douglass, Nathaniel Hawthorne, Herman Melville, Walt Whitman, Thomas Paine, and Benjamin Franklin. Post-secondary bound students should strongly consider taking this survey course.

### AMERICAN LITERATURE II - 1360

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	None

American Lit II is a study of the literature from Post Civil War to Modern America, 1865 to the present. This study will look at novels, short stories, poetry, drama, essays, and biographies. The course will include analysis, discussion, research, and composition. The

class is designed to develop an appreciation for American literary heritage and study the events which have influenced American writers. Notable writers that may be addressed: Emily Dickinson, T.S. Elliot, Robert Frost, Langston Hughes, Stephen Crane, Upton Sinclair, Sui Si Far, Zitkala-Sa, Ezra Pound, F. Scott Fitzgerald, Ernest Hemingway, William Faulkner, Tennessee Williams, John Steinbeck, Harper Lee, Sylvia Plath, Toni Morrison, and Cormac McCarthy. Post-secondary bound students should strongly consider taking this survey course.

### **NOVELS OF THE 20<sup>TH</sup> CENTURY - 1250**

Semester Course	1/2 credit
An elective course	Open to Juniors and Seniors
Prerequisites:	Freshmen and Sophomore English

This course is for students who enjoy reading works of fiction and non-fiction. Book selections vary from semester to semester. The 20<sup>th</sup> Century has provided a vast and diverse wealth of Novels from both American and international authors. Students will be responsible to take part in class and group discussions and take tests based on the content of the novels and subsequent discussions. Written assignments will include protagonist and antagonist essays, as well as defensible, position reports. This class is a foundational class for all future post-secondary student endeavors.

### **ORAL COMMUNICATION - 1150**

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	None

This course is designed to study and use a variety of oral communication skills. Students will develop methods of writing and delivering speeches. Speech performances are expected and required. Areas of study include: informative and persuasive speaking, interviewing and discussion, and debate. The textbook anticipated to be used in this course is: *Glencoe Speech, 2016*.

### **COMPREHENSIVE ENGLISH - 1750/1755**

Year Course	1/2 credit per semester
An elective course	Open to all students
Prerequisites:	Freshmen and Sophomore English

The course is intended to provide students with a solid academic experience in written and oral communication parallel to that of a college level literature and/or composition course. This course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including the novel, nonfiction, short story, poetry, and drama excerpts. The focus of the course will be on intensive, often timed, short readings, with an emphasis placed on reading critically for content and vocabulary. This course includes expository, analytic and argumentative writing about the literature through both discussion and essay format. By the end of the course, students will demonstrate significant growth in reading for content, vocabulary development, and written and oral communication skills. The textbook anticipated to be used in this course is: *The Language of Composition: Reading, Writing, Rhetoric 2<sup>nd</sup> Edition, by Shea, Scanlon, and Aufses*.

### **STUDENT PUBLICATIONS (WOLFPACK TRACKS) I – 1560**

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	None

The primary objective of this course is the creation of Wolfpack Tracks, NSA's school yearbook. Students taking this course first semester will be involved in all aspects of developing the outline and focus of the yearbook as well as starting the production. Students will be responsible for creating an annual which is reflective of the activities of the current school year. Each student will be responsible for a variety of activities necessary to produce a quality publication. Some of these activities include photography, composition of photo descriptions, subsequent articles and stories, oral and written interviews of school and campus students and staff, original and creative layout designs, editing, and more. Additionally, members will be required to seek out sponsors from area businesses by selling AD space within the annual. All members of the "Annual" team will be responsible to meet deadlines and assist in the promotion and sale of the completed Wolfpack Tracks. This course may be repeated all four years; however, it may only be used for one English credit. Subsequent credits will be applied to the total requirement of elective credits.

# SOCIAL STUDIES

## AMERICAN HISTORY - 2000/2005

Year Course	1/2 credit per semester
Required for graduation	Open to all students
Prerequisites:	None

This course delivers a general survey of United States history from colonial times through the end of the 20<sup>th</sup> century. This course will provide a global view of the significant and central people and events that shaped the United States of America as it exists today, with a focus on domestic, international, social, economic, and political issues and outcomes that influenced and contributed to the United States' emergence as a lasting, multi-century world power. The textbook anticipated to be used in this course is: *The American Pageant by Kennedy and Cohen*.

## AMERICAN GOVERNMENT - 2111

Semester Course	1/2 credit
Required for graduation	Open to all students
Prerequisites:	None

This course examines the American System of government, including fundamental principles and structure since inception. Students will examine origins of our national government, developments within the American system, and significant contributions to our government's continuity. By design, this course will enable the student to better function as a productive citizen in an ever-changing and increasingly complex society. Current events are an integral part of this course. The textbook anticipated to be used in this course is: *Government in America, AP Edition*.

## ISSUES IN HISTORY - 2051

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	U.S. History

Various issues and concepts in history are discussed, analyzed and related to events which are current in society. Some of the anticipated topics include issues which are social, cultural, political, global, environmental, historical, religious, and geopolitical as well as a variety of others. Various individual projects and participation in group activities are required. Students should have a strong interest in current events and how those events shape and impact the people today and the potential impact for tomorrow. Various news sources and publications will be utilized.

## AMERICAN GOVERNMENT II - 2121

Semester Course	1/2 credit
Required for graduation	Open to all students
Prerequisites:	American Government 2111

Moving beyond the foundations of American Government, this course examines the executive, legislative, and judicial branches on a more interactive level. Topics of study include the electoral process, landmark Supreme Court cases, the making of foreign policy, and a closer look at the inner workings of state and local governments. Additionally, this course compares the American political system to other political systems throughout the world. As this course is designed to encourage the global-consciousness of the student, current events are an integral part of this course. The textbook anticipated to be used in this course is: *Government in America, AP Edition*.

## ADVANCED WORLD HISTORY - 2080/2085

Year Course	1/2 credit per semester
An elective course	Open to Juniors and Seniors
Prerequisites:	None

This course surveys world history from the origins of civilization through the present. This course highlights the nature of changes inside global frameworks along with their causes and consequences. This is a college level course with extensive outside reading required. The textbook anticipated to be used in this course is: *Traditions & Encounters: A Global Perspective on the Past, AP 6<sup>th</sup> Edition 2017, by Jerry Bentley*. Students are encouraged to take the AP World History exam after taking this course.

## **INTRODUCTION TO PSYCHOLOGY – 2115**

Semester Course  
An elective course  
Prerequisites:

1/2 Credit  
Open to Sophomores, Juniors, & Seniors  
None

This course is a survey of the multiple aspects of human behavior. It combines the highly effective SQ4R (Survey, Question, Read, Recite, Reflect, Review) active learning system with detailed coverage of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It involves a survey of the theoretical foundations including research methods, biological and environmental impacts, sensation and perception, intelligence and stress and others. This course takes the student beyond learning psychology as a set of facts to learning psychology skills that make a difference in your everyday life and future career. The textbook anticipated to be used in this course is: *Psychology: Modules for Active Learning 14<sup>th</sup> Edition*, by Coon, Mitterer, Martini.

## **ECONOMICS**

Semester Course  
An elective course  
Prerequisites:

1/2 Credit  
Open to Sophomores, Juniors, & Seniors  
None

This semester course examines the basic concepts of micro and macroeconomics and the effects each has on the other. Major topics include supply and demand, monetary policy, fiscal policy, investing and international trade. According to Stanford Professor Thomas Sowell, when supply is bountiful, everyone has access, therefore no need to economize, hence no economics. Unfortunately, that is not the case throughout the world. Economics is the result of the dichotomy between the haves and the have nots and the subsequent impact realized in a society, throughout a country, and felt globally. Current events and historic trends will have a major role in this course. The textbook anticipated to be used in this course is: *Basic Economics 5<sup>th</sup> Edition*, by Thomas Sowell.

## **HUMAN GEOGRAPHY – 2850**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all students  
None

This course explores the processes, distributions, and effects of human populations upon our planet. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography, with an emphasis on geographic models and their pertinent applications. The textbook anticipated to be used in this course is: *The Cultural Landscape: An Introduction to Human Geography 11<sup>th</sup> Edition*, by James Rubenstein.

# **MATHEMATICS**

## **INTERMEDIATE ALGEBRA – 3600/3605**

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

Intermediate Algebra is a course designed to cover a general overview of algebraic concepts. Topics covered in this course include: Review of Real Numbers, Solving Equations & Inequalities, Solving Systems of Equations & Inequalities, Polynomials & Exponents, Rational Expressions, Radical Expressions & Rational Exponents, Quadratic Equations & Inequalities, Exponential & Logarithmic Functions, Sequences & Series, and Conic Sections. The textbook anticipated to be used in this course is: *Intermediate Algebra, 9<sup>th</sup> Edition* by Aufmann & Lockwood. As in most math courses, the student should be conscious of the fact that note taking is important and doing assignments is a must.

## **PRE-CALCULUS – 3700/3705**

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

Pre-calculus is an extension of algebra skills with an emphasis on trigonometry and preparation for calculus. Many higher order topics from Algebra II are reviewed such as solving and graphing quadratics, higher degree polynomials, and graphing trigonometric functions. Extensions include proving and applying trigonometric identities, matrix operations and applications, and graphing parametric equations and polar coordinates. The textbook anticipated to be used in this course is: *Pre-calculus, 10<sup>th</sup> edition* by Larson. As in most math courses, the student should be conscious of the fact that note taking is important and doing assignments is a must. It is recommended to purchase a TI-83 graphing calculator for this course.

### **AP CALCULUS - 3810/3815**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	A or B in Pre-calculus or teacher approval

Calculus is generally offered to incoming college freshmen majoring in engineering, mathematics, or some specific science field. Topics covered provide students with many skills used to solve a variety of more advanced problems. Graphing calculators are used extensively in this course. Topics covered in this course include the formal definition of a limit, differentiation strategies, integrations techniques, and applications of derivatives & integrals. College credit will be earned upon passing the AP exam. The textbook anticipated to be used in this course is: *Calculus, 10<sup>th</sup> edition* by Larson & Edwards. As in most math courses, the student should be conscious of the fact that note taking is important and doing assignments is a must. Graphing calculators (TI-84 Plus) will be used extensively in this course.

### **STATISTICS AND PROBABILITY – 3210/3215**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	A or B in Pre-calculus or teacher approval

Stats & Probability is generally offered to incoming college freshmen majoring in engineering, mathematics, or some specific science fields. Topics covered provide students with many skills used to solve a variety of more advanced problems. Graphing calculators are used extensively in this course. Topics covered in this course include Descriptive Analysis & Presentation of Single Variable Data & Bi-Variate Data, Probability Distributions, Normal Distributions, Statistical Inferences, Linear Correlation & Regression Analysis, and Nonparametric Statistics. College credit will be earned upon passing the AP exam. The textbook anticipated to be used in this course is: *Elementary Statistics, 11<sup>th</sup> edition* by Johnson & Kuby. As in most math courses, the student should be conscious of the fact that note taking is important and doing assignments is a must. Graphing calculators (TI-84 Plus) will be used extensively in this course.

### **AP STATISTICS – 3220/3225**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	A or B in Pre-calculus or teacher approval

Stats & Probability is generally offered to incoming college freshman majoring in engineering, mathematics, or some specific science fields. Topics covered provide students with many skills used to solve a variety of more advanced problems. Graphing calculators are used extensively in this course. Topics covered in this course include Descriptive Analysis & Presentation of Single Variable Data & Bi-Variate Data, Probability Distributions, Normal Distributions, Statistical Inferences, Linear Correlation & Regression Analysis, and Nonparametric Statistics. College credit will be earned upon passing the AP exam. The textbook anticipated to be used in this course is: *Elementary Statistics, 11<sup>th</sup> edition* by Johnson & Kuby. As in most math courses, the student should be conscious of the fact that note taking is important and doing assignments is a must. Graphing calculators (TI-83) will be used extensively in this course.

### **MODERN GEOMETRY - 3410**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	A or B in Inter. Algebra or teacher approval

Modern Geometry is a semester long elective mathematics course with a focus on geometric theory and applications. The textbook anticipated to be used in this course is *Geometry: Concepts and Skills, Student Edition* by Larson, Boswell, and Stiff. Some areas of focus are: Geometry Through the Ages, Euclidean Geometry, Transformation Geometry, Fractal Geometry, and Projective Geometry.

## **PROOFS IN NUMBER THEORY - 3510**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
A or B in Inter. Algebra or teacher approval

Proofs in number theory is a semester long elective mathematics course with a focus on mathematical writing. Topics of the course include: Proofs by Induction, Divisibility Theory, Number-Theoretic Functions, Prime Distributions, Fermat's Theorem, and proofs of other mathematical concepts. The textbook anticipated to be used in this course is *Elementary Number Theory* 7<sup>th</sup> Edition by David M. Burton.

## **SCIENCE**

### **BIOLOGY - 4050/4055**

Year Course  
Required for graduation  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

Biology is the fundamental life science course. This course provides an overview of the living world and how it functions. Areas of study include characteristics of life, basic biochemistry, the cell, photosynthesis, respiration, energy flow in living systems, genetics, evolution, plant and animal systems, and human biology. Students will perform hands-on laboratory experiments and projects while learning about the living world. Field trips to go along with lessons will be featured. The textbook anticipated to be used in this course is *Biology*, 11<sup>th</sup> Edition, by Raven and Johnson.

### **CHEMISTRY - 4150/4155**

Year Course  
Required for graduation  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

Chemistry is a basic requirement for a career in medicine, engineering, technology or any other scientific field, and it is highly recommended for students who are planning to enroll in college or technical school. Chemistry is the study of matter and its interactions, and is one of the physical sciences. Some of the topics include measurement, classification of matter, chemical and physical properties/changes, atomic theory, atomic structure, chemical reactions, moles, balancing equations, thermodynamics, the periodic table, acids/bases, and basic organic chemistry. This course requires proficiency in mathematics, as the mathematical relationships involving structure and chemical changes will be studied. Laboratory exercises will be used to emphasize and reinforce classroom theory and to promote analytical thinking through application of the scientific method. The textbook anticipated to be used in this course is *Chemistry, The Central Science* by Woodward, Murphy, and Stoltzfus.

### **AP BIOLOGY – 4060/4065**

Year course  
An elective course  
Prerequisites:

1 credit  
Open to all Students  
Algebra

AP Biology is a rigorous life science course designed to prepare students for college or technical school, particularly for anyone aspiring toward a career in medicine, biotechnology or any other scientific field. The course focuses on the four Big Ideas of Biology: Evolution, Use of Free Energy by Biological Systems, Information Storage, Retrieval, and Transmission in Biological Systems, and Interaction of Biological Systems. Instruction will rely heavily on inquiry and critical thinking activities. This course requires proficiency in mathematics, as the mathematical relationships involving systems and their interactions will be studied. Laboratory exercises will be used to emphasize and reinforce classroom theory and to promote analytical thinking through application of the scientific method. Field trips appropriate to the topics will be offered. The textbook anticipated to be used in this course is *Campbell Biology* 11<sup>th</sup> Edition by Urry, Cain, Wasserman, Minorsky, and Reece. Students are expected to take the AP Biology exam.

## **AP CHEMISTRY – 4160/4165**

Year Course	1 credit
An elective course	Open to all Students
Prerequisites:	Algebra

AP Chemistry is a rigorous course designed to prepare students for college or technical school, particularly for anyone aspiring toward a career in medicine, engineering, technology or any other scientific field. The course focuses on the six Big Ideas of Chemistry: Structure of Matter, Properties of Matter, Chemical Reactions, Rates of Reactions, Thermodynamics, and Equilibrium. Instruction will rely heavily on inquiry and critical thinking activities. This course requires proficiency in mathematics, as the mathematical relationships involving structure and chemical changes will be studied. Laboratory exercises will be used to emphasize and reinforce classroom theory and to promote analytical thinking through application of the scientific method. Field trips appropriate to the topics will be offered. The textbook anticipated to be used in this course is AP Chemistry 5 Steps to a 5 by Moore and Langley. Students are expected to take the AP Chemistry exam.

## **PHYSICS - 4250/4255**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	Pre-calculus or teacher approval.

Physics is the study of energy and motion. Topics covered include the scientific method, measurement, vectors, mechanics (kinematics, circular motion, Newton's Laws, forces, machines, simple harmonic motion, and fluid mechanics), gravitation, wave mechanics, heat, light, sound, electricity, magnetism, and selected topics from modern physics. Physics is essential to those students who wish to pursue engineering careers or other math/science related fields. Periodic laboratory exercises will allow students to confirm and verify classroom theory. The textbook anticipated to be used in this course is Conceptual Physics: The High School Physics Program, by Paul Hewitt.

## **ENVIRONMENTAL SCIENCE - 4090/4095**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	None

Environmental Science is the study of interrelationships in the natural world, human interaction with the natural world and the societal, political and moral views that guide and impact our views and interactions with nature. Students interested in the environment and environmental issues, and those who are considering employment in the area of forestry or other natural sciences will benefit from successfully completing Environmental Science. This course will provide students with the scientific principles, concepts and methodologies to understand the interrelationships in the natural world. Students will be given ample opportunity to apply their knowledge in the identification and analysis of environmental problems and to identify possible courses of action once the benefits and risks have been evaluated. The textbook anticipated to be used in this course is Environmental Science, AP Edition, by Friedland, Relyea, and Courard-Hauri. Students are encouraged to take the AP Environmental exam after taking this course.

## **ASTRONOMY – 4450**

Semester Course	1/2 credit
An elective course	Open to all students
Prerequisites:	None

Astronomy is one of the two basic divisions of Earth Science. As long as humans have walked the earth, they have gazed up at the stars and wondered. No other science speaks so powerfully to the commonality of human experience. Some of the topics covered include the history of astronomy, constellations, solar system, the inner and outer planets, comets, meteors, asteroids, the nature of light, stars, galaxies, the universe, Kepler's laws, and navigation of the night time sky observations. Several night time sky observations will be conducted. Algebraic principles will be used to study a variety of issues including the mathematical relationships of electromagnetic waves and speed of light. Selected laboratory exercises will be used to emphasize and reinforce classroom theory and to promote analytical thinking through application of the scientific method. The textbook anticipated to be used in this course is Astronomy Today, 9<sup>th</sup> Edition, by Chaisson and McMillan.

## **GEOLOGY - 4360**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

Geology is one of the two basic divisions of Earth Science. The course is an in-depth study of our home planet. Topics covered include: Earth's formation and history, the fossil record, the rock cycle, rocks and minerals, gemstones, structure of the Earth, tectonic plates, earthquakes and volcanism, and erosion and surface forces. Field trips to Wisconsin and Michigan areas of geologic interest will be part of the curriculum for this course. Laboratory exercises will be used to emphasize and reinforce classroom theory and to promote analytical thinking through application of the scientific method. The textbook anticipated to be used in this course is Earth Science: Geology, the Environment and the Universe, by Glencoe.

## **BUSINESS EDUCATION**

### **FINANCIAL ACCOUNTING – 5100/5105**

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to Sophomores, Juniors, and Seniors  
None

Students will learn and demonstrate the complete accounting process for three types of business (Proprietorship, Partnership, and Corporation) using both standard and special journals and ledgers. Real world accounting simulations provide the students with hands-on opportunities to analyze business transactions and accounting procedures.

### **BUSINESS TECHNOLOGY – 5760**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all students  
None

Business Technology is a semester course focusing on the integration of the following software platforms: Microsoft Word 2018, Microsoft Excel 2018, Adobe Creative Cloud 2018, and Adobe Illustrator Creative Cloud. The ultimate goal of this course is to expose students to practical examples of the computer as a useful tool for their current and future aspirations. Students will discover the underlying functionality of Word and Excel 2018 to further their productivity in the classroom. Students will be introduced to the graphic design capabilities of Adobe Photoshop & Illustrator incorporating their business technology skills throughout. Creative projects will be used to help students develop a deeper understanding of these platforms.

### **SMALL BUSINESS ACCOUNTING – 5264**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to Sophomores, Juniors, and Seniors  
Financial Accounting

This course presents advanced accounting functions and computerized accounting applications utilizing current industry software. Emphasis is on preparing students with the automated accounting skills necessary to succeed in maintaining financial records for their own business and/or in pursuing business degrees at the Post-secondary level where a minimum of two accounting courses is often a requirement.

### **PERSONAL FINANCE - 5310**

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

Learning about money is as important as earning it. This course is designed to help students develop strategies and skills for: maximizing their earning potential, budgeting resources, using credit wisely, examining investment opportunities, and insurance planning. Students will acquire practical skills as they develop their own financial plan, learn the time value of money and explore the



benefits of long range planning and investments. Students will also explore ways to protect their assets, explore online money management tools and examine their consumer rights. The goal of the course is for students to understand how to become a wiser consumer and to get the most out of the money they earn. This class is highly recommended for all students to take sometime during their high school education.

### **WEB PAGE DESIGN - 5285**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

Web Page Design class is a semester-long course where students will have the opportunity to explore different software relating to web page design. Students will produce web sites using HTML, and now the industry standard software Adobe Creative Cloud 2018. Students that want to know how to produce a web site then this is the course for them.

## **ART**

### **ART SURVEY – 7320**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is for students who are just beginning their high school art experience. Students must be interested in improving their general art skills. Students will do many small projects which are designed to help them improve in the areas of drawing, painting, and design in general. The textbook anticipated to be used in this course is *From Ordinary to Extraordinary*, by Ken Vieth.

### **PAINTING & DRAWING - 7321**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is for students who would like to improve their skills in drawing and painting realistic objects. Students will experiment with various subjects and will draw with pencil, charcoal, oil pastels, markers and India ink. Students will also learn how to work in watercolor and acrylic paints. Research in Art History will also be used to enhance student development in this medium.

### **POTTERY AND SCULPTURE - 7382**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is for students who enjoy working with their hands to make functional and creative objects. Students will make sculptures from clay, wood, wire, plaster and paper mache. They will make pottery with various hand building techniques and will learn to use the potter's wheel. Such items as soup bowls, mugs, vases, pitchers and boxes will be made, with plenty of time for experimentation.

### **ILLUSTRATION - 7363**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course requires students to develop drawing and painting skills necessary to convey ideas, messages, stories, allegories, as well as a variety of human emotions. Basic cartooning skills will be a major component of this course. This medium requires students to develop disciplined attention to detail. A wide variety of illustrative art reference and resource books will be used in this course.

## GRAPHIC DESIGN - 7393

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

Graphic design has become much more than ink on paper; it has left the page to conquer space, motion and interaction. To stay ahead of the curve, students will expand their creative skills in an integrative learning environment that encompasses multi-media platforms. The textbook anticipated to be used in this course is *Communicating Through Graphic Design*, by Gatta and Golding.

## LANGUAGES

### SPANISH I - 7000/7005

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

This course stresses the mastery of basic conversational Spanish through the skills of listening, speaking, reading, and writing. Videos and materials from Latin America provide practice in using the Spanish language. **Many colleges require two years of a foreign language.**

### SPANISH II - 7020/7025

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to Sophomores, Juniors, and Seniors  
Spanish I with a grade of C or better.

This course reviews all grammatical forms studied in Spanish I. In addition, verb forms and a wider variety of vocabulary will be studied, along with the countries of Latin America. Increased emphasis will be placed on conversation, as well as expanding the student's writing in Spanish. Class is conducted mainly in Spanish. **Many colleges require two years of a foreign language.**

### FRENCH I - 7100/7105

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

This course stresses the mastery of basic conversational French through the skills of listening, speaking, reading, and writing. Videos and materials from Francophone countries will provide practice in using the French language. **Many colleges require two years of a foreign language.**

### FRENCH II - 7150/7155

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

This course focuses on adding more vocabulary and verb tenses to the student's written and spoken French. The course will also involve writing regularly at length in short answer, essay, and for projects. **Many colleges/universities require two years of a foreign language.**

### CHINESE - 7200/7205

Year Course  
An elective course  
Prerequisites:

1/2 credit per semester  
Open to all Students  
None

This is the first quarter of a four-quarter sequence in first-year modern Chinese. The major goal of this course is to introduce elementary Mandarin pronunciation, grammar and orthography (in both Romanized and character forms) to beginners with no exposure to the language. This course consists of lectures every week, plus recitation practices on a daily basis. **Many colleges/universities require two years of a foreign language.**

### **ENGLISH AS A SECOND LANGUAGE (ESL) – 7900**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is intended to help students who have a difficult time communicating and expressing themselves using English in an academic setting. Students will not only focus on individualized plans based on their needs, but also group discussions and activities to build skills such as: reading and listening comprehension, vocabulary expansion, pronunciation, basic grammar, and language test preparation, such as the TOEFL iBT and the iTEP Slate or iTEP academic. This course may be repeated. The textbook anticipated to be used in this course is *Official TOEFL iBT Tests, Volume 2 and Cambridge Preparation for the TOEFL Test, Fourth Edition* by Gear and Gear.

## MUSIC

### **PERFORMANCE LIVE-7500/7505**

Year Course	1/2 credit per semester
An elective course	Open to all Students
Prerequisites:	Piano or Guitar, or currently enrolled in either or instructor's permission.

Students will find a wide variety of musical experience in Performance *LIVE*. Students will be able to choose to learn one of various instruments often used in modern bands. This course may be repeated all 4 years.

### **PIANO I - 7721**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is designed to be an introduction to the piano keyboard for the student with little or no keyboard skills. Course content includes a study of music notation, right and left hand skills, chords, and ear-training. Depending on skill level, this course may be repeated at the discretion of the teacher.

### **PIANO II - 7731**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	Keyboard I or teacher approval

This course is a continuation of Piano Keyboard I. Additional course work includes sostenuto pedal and the study of more advanced musical skills. Students must take Piano Keyboarding I before enrolling in Piano Keyboarding II. Exceptions are made at the teacher's discretion. This course may be repeated.

### **GUITAR I - 7570**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

Basic beginning class instruction in guitar, students will not only learn how to play guitar and improve their present level of playing, but will learn to read music and how to accompany themselves and others in music making. Students will be introduced to elementary

chords, melody playing and right hand techniques. Depending on skill level, this course may be repeated at the discretion of the teacher.

### **GUITAR II (JUKE BOX HERO) – 7571**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	Guitar I or teacher approval

So you want to be a Juke Box Hero? This course provides advanced class instruction in guitar. Soloing, improvisation, composition, and reading advanced chord charts are employed to introduce the student with the necessary skills to become a studio musician. This course may be repeated as an independent study course.

## **PHYSICAL EDUCATION**

### **RECREATION EDUCATION - 8100**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is designed for juniors and seniors as an introduction to lifetime individual and dual sporting activities. Some of the activities covered include tennis, ping pong, fitness and weight training, golf, jogging, softball, snowshoeing, cross country skiing, and physical fitness testing. The importance of exercise as a lifetime activity is stressed. This course may be repeated.

### **TEAM SPORTS - 8110**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is designed to introduce students to a variety of team sports and activities including the rules of each sport. Students will actively participate in seasonal sports such as field hockey, speed ball, football, basketball, soccer, volleyball, floor hockey, dodge ball, softball, and ultimate Frisbee. Safe participation, teamwork, improving skills, and sportsmanship will be the focus. This course may be repeated.

### **AEROBICS - 8150**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

“Fitness for life,” is a class that emphasizes personal fitness and goal setting. Activities will include speed workouts, weight-lifting, snow-shoeing, cross-country skiing, step aerobics, hiking, biking, and jogging. With the help of the instructor, students will set fitness goals and objectives. This course may be repeated.

### **FITNESS/WEIGHT TRAINING - 8161**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

This course is designed to develop and increase muscle strength and mass through the use of free weights, resistance machines, and exercise. Students are evaluated and placed on a personalized, scheduled workout routine. Self-motivation and a commitment to improvement is fundamental for success in this course. Students must be disciplined in order to reap the full benefits available in this course. In addition to weight training, students will do aerobic exercises, plyometric, sprint circuit, walking, and physical fitness testing. This course may be repeated.

## HEALTH

### HEALTH - 8405

Semester Course  
Required for graduation  
Prerequisites:

1/2 credit  
Open to all Students  
None

The purpose of this course is to promote positive decision making and practices for healthy living in today's world. The health information presented and discussed throughout the semester will hopefully enable students to assume responsibility for their own health. Students will be expected to discuss issues with others and to use what they learn by practicing, applying, and acting in a responsible health-conscience manner. Some of the topics studied are goal setting, Red Cross C.P.R., first aid, nutrition, alcohol and drug abuse prevention, violence prevention, conflict resolution, human growth and development and effective communication. The textbook anticipated to be used in this course is *Pearson Health, 2014 by Pruitt, Allegrante, and Prothrow-Stith*.

## FAMILY CONSUMER EDUCATION

### INDEPENDENT LIVING - 5630

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

This course will focus on decision-making skills, management processes, goal setting, choices and changes and what it means to be self-supporting. Student projects consist of planning, managing, and "living" on a budget, (determined by the occupation the student has chosen for their future). Project topics include: housing, home furnishing and equipment, managing credit, automobile purchases, insurance needs, food choices and menu planning, cooking, and other "real world" responsibilities and challenges. Nutrition and basic cooking skills will be taught. The use and application of small appliances, cooking utensils, spices and herbs will be included. Students will prepare foods to be served for breakfast, lunch, and dinner, as well as special occasions.

### FOODS: SELECTION, PREPARATION, COOKING, & PRESENTATION - 5640

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

This course will expand on the food prep of Independent Living. Students will learn applications of food preparation, improve their skills in menu planning, selecting, preparing, cooking and presenting their finished dishes. Students will explore the principles of menu planning, food economics, time management, and the use of convenience foods. The creative cook will enjoy this class. This course includes a review of nutrition and basic cooking skills, food garnishing skills, and special occasion food preparation. The use of spices and herbs is foundational for becoming a great cook. Students will prepare a variety of meals for a variety of occasions. This course may be repeated with the consent of the instructor.

## TECHNOLOGY EDUCATION

### DRAFTING/GRAPHIC COMMUNICATION - 6350

Semester Course  
An elective course  
Prerequisites:

1/2 credit  
Open to all Students  
None

This course consists of introductory level material in a wide variety of Engineering and Architectural fields. Primary emphasis will be placed on drafting techniques dealing with Introduction to Drafting, Careers in Drafting, Sketching, Drafting Equipment, Drafting Techniques, Lettering, Geometric Construction, Dimensioning, Multi-view Drawing, Computer Assisted Design and Drafting

(CADD), Auxiliary Drawing, Sectional Drawing, and Introduction to Architecture. Students will be introduced to other facets of the Engineering and Architectural industry.

**COMPUTER ASSISTED DESIGN AND DRAFTING (CAD) - 6340**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	C or better in Drafting

This course follows Drafting/Graphic Communication. It consists of the practical application of the study of Computer Assisted Design and Drafting. Students will study two programs designed for the computer. Each program uses the basis of coordinate drafting techniques. The student will become experienced in the area of engineering or architectural design.

**“CSI” COMPUTER & SYSTEMS INVESTIGATOR - 6360**

Semester Course	1/2 credit
An elective course	Open to all Students
Prerequisites:	None

“CSI”, computers and systems investigator or is it crime scene investigator? Anyone who has had problems with computers or a network connecting issue might think it was a crime scene. In CSI 6360, students will learn the ins and outs of computers and their corresponding network systems. Becoming a CSI or computer technician will provide the student with a wide range of opportunities in a variety of settings including both private and public organizations. Techs can choose to specialize in the hardware or software side of information technology or both. This course will provide students with a strong foundation in computer diagnostics and repair.

**“MIT OPEN COURSEWARE” ELECTRICAL ENGINEERING & COMPUTER SCIENCE I (6.01SC) - 6990**

Semester Course	1/2 credit
An elective course	Open to Juniors and Seniors
Prerequisites:	None

This course provides an integrated introduction to electrical engineering and computer science, using substantial laboratory experiments with mobile robots. Course goals include: teaching students to learn to appreciate and use fundamental design principles of modularity and abstraction in a variety of contexts from electrical engineering and computer science; showing students that making mathematical models of real systems can help in the design and analysis of those systems; and presenting exciting and important basic material from electrical engineering and computer science, including modern software engineering, linear systems analysis, electronic circuits, and decision-making. The materials used in this course is provided by Massachusetts Institute of Technology (MIT).

**“MIT OPEN COURSEWARE” ELECTRICAL ENGINEERING & COMPUTER SCIENCE II (6.02) – 6991**

Semester Course	1/2 credit
An elective course	Open to Juniors and Seniors
Prerequisites:	EECS I (6.01CS)

An introduction to several fundamental ideas in electrical engineering and computer science, using digital communication systems as the vehicle. The three parts of the course—bits, signals, and packets—cover three corresponding layers of abstraction that form the basis of communication systems like the Internet.

The course teaches ideas that are useful in other parts of EECS: abstraction, probabilistic analysis, superposition, time and frequency-domain representations, system design principles and trade-offs, and centralized and distributed algorithms. The course emphasizes connections between theoretical concepts and practice using programming tasks and some experiments with real-world communication channels. The materials used in this course is provided by Massachusetts Institute of Technology (MIT).

**POST-SECONDARY DISTANCE LEARNING COURSES: All NSA students will have access to the complete on-line library of course offerings from the University of Wisconsin and the library of courses delivered by our Post-secondary partners through our Distance Learning Lab. For a complete list of those course offerings, see Student Services.**

# FRESHMEN

Student Name \_\_\_\_\_

Last grade completed in your previous school. \_\_\_\_\_

## LIST COURSES IN ORDER OF PREFERENCE

Semester I			Semester II		
Course #	Course Name	Teacher OK	Course #	Course Name	Teacher OK
1000	Freshmen English	NA	1005	Freshmen English	NA
_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Fill in all spaces above			Fill in all spaces above		

Must List 2 Alternate Classes

\_\_\_\_\_

\_\_\_\_\_

Must List 2 Alternate Classes

\_\_\_\_\_

\_\_\_\_\_

Number of Study Period (Circle One)    0    1

Number of Study Period (Circle One)    0    1

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

# SOPHOMORES

Student Name \_\_\_\_\_

Last grade completed in your previous school. \_\_\_\_\_

## LIST COURSES IN ORDER OF PREFERENCE

Semester I			Semester II		
Course #	Course Name	Teacher OK	Course #	Course Name	Teacher OK
1050	Sophomore English	NA	1055	Sophomore English	NA
2111	American Government*	NA	_____	_____	_____
_____	_____	_____	_____	_____	_____
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\*Either semester

Must List 2 Alternate Classes

_____	_____	_____
_____	_____	_____

Must List 2 Alternate Classes

_____	_____	_____
_____	_____	_____

Number of Study Period (Circle One)     0     1

Number of Study Period (Circle One)     0     1

Student Signature \_\_\_\_\_

Date \_\_\_\_\_



# JUNIORS

Student Name \_\_\_\_\_

Last grade completed in your previous school. \_\_\_\_\_

## LIST COURSES IN ORDER OF PREFERENCE

Semester I			Semester II		
Course #	Course Name	Teacher OK	Course #	Course Name	Teacher OK
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
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_____	Fill in all spaces above	_____	_____	Fill in all spaces above	_____

<u>Must List 2 Alternate Classes</u>			<u>Must List 2 Alternate Classes</u>		
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

# SENIORS

Student Name \_\_\_\_\_

Last grade completed in your previous school. \_\_\_\_\_

## LIST COURSES IN ORDER OF PREFERENCE

Semester I			Semester II		
Course #	Course Name	Teacher OK	Course #	Course Name	Teacher OK
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	Fill in all spaces above	_____	_____	Fill in all spaces above	_____

**Must List 2 Alternate Classes**

_____	_____	_____
_____	_____	_____

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_____	_____	_____
_____	_____	_____

Student Signature \_\_\_\_\_

Date \_\_\_\_\_