

# **Grand Rapids High School Curriculum Guide 2022-2023**

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## Contact Information

Grand Rapids High School: 327-5760

**Principal: Matt Dass**

**Assistant Principal: Andy Forbort**

**Assistant Principal: Darrin Hofstad**



Counseling Department: 327-5770

Students are assigned counselors according to last name:

**Tanis Henderson** ext. 41415: A-D

**Nate Elsen**, ext. 41412: E-KL

**Teresa Stephens**, ext. 41559: KN-RH

**Sheila Anderson**, ext. 41414: RI-Z

### Curricular Areas:

Art/Christy Cole ..... ext. 41427

Business Ed/James Scherping .....ext. 41516

English/Danielle Asplund ..... ext. 41451

Math/Brenda Perreault .....ext. 41558

Music/Dale Gunderson .....ext. 41502

PE-Health/Darin Illikainen .....ext. 41431

Science/Jodi Warner.....ext. 41428

Social Studies/Jessica Felosi ..... ext. 41468

Special Ed./Angie Vekich.....ext. 41526

Tech Center/Tim Larson .....ext. 41463

World Languages/Stephanie Stevens .....ext. 41490

## Helpful Tips for Registration

1. Students and parents should read the requirements for graduation.
2. Students and parents should carefully review the course descriptions in the GRHS curriculum guide to:
  - a. Gain a clear understanding of the content of the course.
  - b. Check if there is a prerequisite (including GPA requirements for CITS credit).
  - c. Decide if a course is academically appropriate.
  - d. Decide if a course fits with future plans.
3. Counselors and staff encourage students to choose courses that are needed to meet career goals and/or explore new areas, as well as requirements for high school graduation.
4. International Baccalaureate classes are designed for students who have demonstrated academic achievement through their dedication to learning. Students and parents should consider the level of commitment necessary when selecting these classes.
- 5 It is each student's personal responsibility to periodically review his/her credit status and meet all graduation requirements.
6. All students must register for six hours of credit (seniors can register for 5 hours of credit if they have met graduation requirements). No more than one study hall per semester is allowed.
7. A student's scholastic rank (Grade Point Average) will be based on an accumulation of final semester grades in the courses he/she takes. Transfer students' credits will be evaluated on enrollment.
8. **Talk to a counselor if you have any questions!!**

# GRADUATION REQUIREMENTS

## GRHS Credit Requirements

Subject	State Requirement	ISD 318 Requirement
English	4.0	4.0
Social	3.5	3.5
Math	3.0	3.0
Science	3.0	3.0
Art*	1.0	1.0
Physical Education		1.0
Health		.5
Money Matters		.5
Elective	7.0	6.5
<b>Total</b>	<b>21.5</b>	<b>23</b>

\*Courses that meet the Arts Credit Requirement at GRHS:

- All Art Courses
- All Band/Music Courses
- All Choir Courses
- Graphic Design using Adobe InDesign
  - Python Coding & App
  - Website Design I
  - Website Design II
- Multimedia Applications
- Advanced Multimedia Applications
  - Design & Print I
  - Design & Print II
- Greenhouse/Landscaping
  - Auto body

## State Assessment Requirements

The Minnesota Comprehensive Assessments (MCA) are the state tests that help districts measure student progress toward Minnesota's academic standards and also meet federal and state legislative requirements. In high school, 10<sup>th</sup> grade students take the MCA Reading and Science tests and 11<sup>th</sup> grade students take the MCA Math test. Please go to the Minnesota Department of Education website to get detailed information: [www.education.state.mn.us](http://www.education.state.mn.us) > Students and Families > Statewide Testing.

# **EDUCATIONAL OPTIONS**

**1. INTERNATIONAL BACCALAUREATE** – See pages 10-13 for program description.

**2. COLLEGE in the SCHOOLS (CITS)** - See pages 14-17 for courses and requirements.

**4. INFINITY Online** – Infinity offers a variety of online courses that students can take to supplement their GRHS classes. To be covered by state funds, the course cannot be an 8<sup>th</sup> course on a student's schedule and cannot exceed 50% of total courses taken. Counselor and parent approval required. A study hall is provided for the student to work on his/her course. For more information go to [www.mninfinity.org](http://www.mninfinity.org).

**5. MINNESOTA POST SECONDARY ENROLLMENT OPTIONS ACT (PSEO)** - The Post-Secondary Enrollment Options Act allows juniors and seniors in high school to take courses, full or part-time, at a liberal arts, community or technical college or university, or non-profit degree granting trade school for high school credit. Tuition, fees, and required textbooks are at no cost to students. PSEO law states that a student needs to notify their district of their intent to enroll in PSEO courses for the following school year by **May 30<sup>th</sup>**.

## **Requirements:**

- You must be a high school junior or senior for most classes. There are some approved "Career and Technical Education" (CTE) for 10<sup>th</sup> grade students.
- You must have a 3.20 grade point average as a junior and a 3.0 grade point average as a senior. Proficiency on the MCA Reading test qualifies a 10<sup>th</sup> grader. Upon receiving a "C" or better on his/her first course, 10<sup>th</sup> grade students are then eligible to take additional courses second semester.
- You need to place at a college level of coursework based upon the Accuplacer Placement exam.
- You and your parents must complete the GRHS Post-Secondary Agreement form available in the High School Counseling office.

More information and the registration form can be found on the Minnesota Department of Education website under "Student Success">"College and Career Readiness">"Postsecondary Enrollment Options".

**6. OPEN ENROLLMENT** - Open Enrollment allows students that reside in ISD 318 to enroll in another participating school district. Students must enroll in one public school on a full-time basis. **The Open Enrollment application deadline is December 31** of the year prior to enrollment.

**7. THE AREA LEARNING CENTER (ALC)** - The ALC is an individualized alternative high school educational program designed to meet the needs of students who, for a variety of reasons including academic/social difficulties or personal needs necessitating more flexible hours are not successful in the traditional school setting. Student placement at the ALC is based upon administrative recommendation. Referrals for ALC enrollment come from a counselor or the assistant principal. Student or parent/ guardian requests should be directed to the high school counseling office. Students must be age 16-21 to be eligible for acceptance at the ALC and it is recommended that the student has completed ninth grade. To learn more about the ALC contact the school counselor or call the ALC at 999-0247. (*ALC credits do not count toward NCAA eligibility.*)

# ADVANCED EDUCATION

## Technical/Vocational Programs, 2 year and 4 year colleges

The following information is intended to serve as a guide for selecting high school courses and for planning ahead to meet future goals. The GRHS guidance counselors would like to invite all students to meet with them early in their high school career in order to assist them in their high school and post-high school plans.

Admission requirements for colleges in Minnesota and throughout the United States vary from school to school. Many four year colleges, including the Minnesota State Universities and the University of Minnesota, require or strongly recommend the following college preparatory curriculum (for grades 9-12):

- 4 years of English, including composition and literature.
- 3 years of math, including two years of algebra and one of geometry – University of Minnesota Twin Cities and Duluth require 4 years.
- 3 years of science, including one year each of a physical science, biology, and chemistry or physics. Some colleges require chemistry *and* physics.
- 3 years of social studies, including civics, geography and U.S. History.
- 2-3 years of a single World Language (pending school of choice), and elective classes in world culture or the arts.

Most four year colleges and universities require a college admission test and will accept either the ACT or SAT. As part of new college and career readiness legislature, all juniors are given the option to take the ACT during a school day. Additional information for the ACT and SAT are available in the counseling department or online. Most *two year colleges and technical colleges* require their own placement test. Class rank, grades and program of study are usually the most important criteria for student admission to 4 year colleges. Studies made by colleges and universities indicate that students' grades are an excellent indicator of college success. Selective schools may also require students to complete an essay or even a personal interview. To find specific admissions criteria, contact the individual school or talk with your counselor.

# NCAA

Students who plan to enroll in a 4 year college and wish to participate in Division I or II intercollegiate athletics need to make themselves aware of the NCAA requirements **early** on in their high school career and plan their course work accordingly. More information on eligibility is available at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) . More general information can be found at [www.ncaa.org](http://www.ncaa.org). Speak with your counselor if you have any questions.

<b><i>Core Unit* Requirements for NCAA Certification</i></b>	<b>Division I</b>	<b>Division II</b>
English (Not English Plus*)	4 years	3 years
Math (Int. Algebra or higher – Not GR Math*)	3 years	2 years
Science (Chemistry* does not count)	2 years	2 years
Social Studies	2 years	2 years
Additional English, Math, or Science	1 year	3 years
Additional courses from any area above, TOK or Foreign Language	4 years	4 years
Total Core Units Required	<u>16</u>	<u>16</u>
Core Course GPA	2.3 (2.0 for 'Redshirt' status)	2.2

**\* English Plus, GR Math and Chemistry (*IB and College Prep are okay*) have not been accepted by the NCAA for eligibility. They cannot be used as part of your required 16 units according to NCAA.**

## GRAND RAPIDS HIGH SCHOOL

College in the Schools (CITS) College Credit Pathway

2022/2023

### College Readiness Pathway

#### International Baccalaureate Program



The International Baccalaureate program is the most competitive, rigorous coursework offered at Grand Rapids High School. IB courses not only offer students the opportunity to earn college credit/equivalence in high school but also prepares students more successfully for the steps to come following high school. IB courses can be taken as the complete program, for those attempting to earn the prestigious IB Diploma or stand alone classes for the student planning to challenge themselves in the subjects they love.

#### IB Diploma

The IB Diploma program is the most rigorous and demanding opportunity for students at GRHS. Students must not only meet the [requirements](#) but must also demonstrate knowledge and delivery of material over multiple applications but also demonstrate the ability to balance a demanding workload. Students who attempt or achieve the IB Diploma demonstrate the skills necessary to compete for competitive admissions with the strongest students across the world.

#### IB Honor of Distinction Award

At Grand Rapids High School, we also recognize and honor students at our awards night not only for students who meet requirements for the IB Diploma but also take four IB courses plus the Theory of Knowledge course.

#### CITS

College in the Schools is a concurrent enrollment program in conjunction with the University of Minnesota-Duluth. Concurrent enrollment allows students to earn both college and high school credit in a course. The courses are University of Minnesota Regents approved courses taught by Grand Rapids High School teachers approved as UMD adjunct professors. Grades and credits are recorded on a permanent, official UMD transcript. *Students must have a 3.0 cumulative GPA to register with UMD* and have the opportunity to earn College Credit through high school courses.



#### IB and CITS

Another benefit of the college readiness pathway is the partnership between the IB and College in the Schools program through University of Minnesota Duluth. Not only do students taking an IB/CITS course get the benefit of the IB program but are awarded UMD credit upon completion of the course if the GPA requirements for the student are met. See the CITS Pathway for more information.



## Why IB

- ✓ GRHS IB students outperform their peers on state assessments
- ✓ GRHS IB students have higher acceptance rates to colleges
- ✓ GRHS IB students perform better in post-secondary education than their peers
- ✓ GRHS IB graduates consistently report better preparedness for college level rigor resulting in higher college performance
- ✓ IB students consistently complete college major requirements and diploma in four years or less
- ✓ IB standards are aligned with best practice in education and support effective teaching practices
- ✓ The IB program has a positive impact on the culture of a school

## Grand Rapids Students With CITS UMD Credit

Many of our GRHS students take advantage not only of the curriculum but also of the credit earned through the UMD CITS courses.



**37 UMD Credits =  
over \$17,500 in tuition savings**

**By taking the available UMD CITS courses at GRHS, students can earn as many as 37 UMD Credits or over one academic year towards college/university work!**

## How to prepare for the College Readiness in 11th and 12 grade

Below is a list of classes recommended, but not required, to be prepared for the upper level IB/CITS Coursework at GRHS. Further developing skills such as organization, time management and determination will also benefit students entering the program and increase the likelihood of her/his success.

English	Math	Science	Social
Advanced English 9 Advanced English 10	Intermediate Algebra Geometry Advanced Algebra	Advanced Science 9 College Prep Biology	Advanced Government 9 Advanced Geography 9 Advanced US History



The International Baccalaureate Program is a two-year pre-university course of study for motivated, gifted, and talented juniors and seniors. The courses incorporate multicultural perspectives and internationally based standards of achievement. Courses lead to either the I.B. Diploma or certificates in one or more of the I.B. subject areas. [www.ibo.org](http://www.ibo.org)

Diploma candidates are required to:

1. Study six courses - ***one in each of the six IB subject areas*** - and take the IB exams. 3 must be Higher Level (HL).
2. Take Theory of Knowledge (TOK) I & II - a unique course on the philosophy of learning
3. Write an Extended Essay - an independent, self-directed piece of research, finishing with a 4,000-word paper done under the direct supervision of one of our staff.
4. Participate in CAS. This is a two year program of creativity, activity, and service:

The three strands of CAS, which are often interwoven with particular activities, are characterized as follows:

- **Creativity** – arts, and other experiences that involve creative thinking.
- **Action** – physical exertion contributing to a healthy lifestyle, complementing academic work elsewhere in the DP.
- **Service** – an unpaid and voluntary exchange that has a learning benefit for the student. The rights, dignity and autonomy of all those involved are respected.

In order to demonstrate these concepts, students are required to undertake a CAS Project. The project challenges students to:

- Show initiative,
- Demonstrate perseverance,
- Develop skills such as collaboration, problem solving and decision making.

The Six Subject Areas:

**Group 1: Language A**

IB English 11 & 12\* (HL)

**Group 2: Language B**

IB German IV (SL)

IB Spanish IV (SL)

IB Spanish V (HL)

**Group 3: Individuals and Societies**

IB History 11 & 12 (HL)

IB Geography (SL)

\*Students must take the IB test at the completion of these courses.

**Group 4: Experimental Sciences**

IB Chemistry I & II\* (HL)

IB Physics I & II (HL)

IB Biology I & II (SL or HL)

**Group 5: Mathematics**

IB Calculus (SL)

**Group 6: Arts and Electives**

IB Studio Art (SL)

IB Business & Management (Based on interest)

IB Film Studies (Based on interest)

IB Elective (Additional course in group 3 or 4)

***Note that for most of the HL (Higher Level) courses, exam fees are required. Tests are \$25 (free for Free/Reduced lunch students and IB Diploma Candidates). Check the course description regarding this requirement.***



# GRAND RAPIDS HIGH SCHOOL

## International Baccalaureate College Equivalence Pathway

2022/2023

### IB Pathway

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IB Diploma or stand alone classes for the student planning to challenge themselves in the subjects they love.



#### IB Diploma

The IB Diploma program is the most rigorous and demanding opportunity for students at GRHS. Students must not only meet the [requirements](#) but must also demonstrate knowledge and delivery of material over multiple applications but also demonstrate the ability to balance a demanding workload. Students who attempt or achieve the IB Diploma demonstrate the skills necessary to compete for competitive admissions with the strongest students across the world.

#### IB Honor of Distinction Award

At Grand Rapids High School, we also recognize and honor students at our awards night not only for students who meet requirements for the IB Diploma but also take four IB courses plus the Theory of Knowledge course.

### Assessment

Upon completion of each IB course, students are able to test to demonstrate mastery of course material which also allows the opportunity to earn college credit and/or college course equivalence.

### IB and College in the Schools (CITS) - UMD

Another benefit of the IB coursework at Grand Rapids High School, is the partnership between the IB and College in the Schools program through University of Minnesota Duluth. Not only do students taking an IB/CITS course get the benefit of the IB program but are awarded UMD credit upon completion of the course if the GPA requirements for the student are met. See the CITS Pathway for more information.

### Why IB

- ✓ GRHS IB students outperform their peers on state assessments
- ✓ GRHS IB students have higher acceptance rates to colleges
- ✓ GRHS IB students perform better in post-secondary education than their peers
- ✓ GRHS IB graduates consistently report better preparedness for college level rigor resulting in higher college performance
- ✓ IB students consistently complete college major requirements and diploma in four years or less
- ✓ IB standards are aligned with best practice in education and support effective teaching practices
- ✓ The IB program has a positive impact on the culture of a school



## College Equivalence

Much of what is earned through the IB Diploma depends on the school each student is planning to attend following High School graduation. **For many schools, completion of the IB program and high course assessment cores can amount to more than a full year of college/university work.** Below are just a few examples of programs issuing credit for IB courses in our area.

### UNIVERSITY of MINNESOTA

Students in IB programs receive eight semester credits at the University of Minnesota for each higher-level subject passed with a grade of five or higher. Those who earn the full IB diploma with 30 or more diploma points receive eight semester credits for each higher level subject with grades of five or higher, and up to two semester credits for each standard level subject with grades of five or higher. In other words, the diploma program amounts to about one full year of University work!

**MN STATE COLLEGE & UNIVERSITIES including: BEMIDJI STATE, ST. CLOUD STATE, MSU-MANKATO, MSU-MOORHEAD, WINONA STATE, AND ALL COMMUNITY COLLEGES AND TECH SCHOOLS**

Student shall receive three (3) or more course credits for scores of 4 or higher on individual Higher Level IB examinations and two (2) or more credits for scores of 4 or higher on individual Standard Level IB examinations. Students who attain an IB diploma shall be granted six (6) credits for scores of 4 or higher on HL IB examinations and two (2) credits for scores of 4 or higher on each SL IB examination.

### CONCORDIA COLLEGE

Exam	Score	Credit Awarded	Concordia Course Equivalent
English	4-7	4	ENG 160
History-Europe	4-7	4	HIST 132
Chemistry	4-7	4	CHEM 127
Physics	4-7	4	PHYS 111
Extended Essay	Approval by Department and/or Registrar		

If a student earns an IB Diploma and 30 or higher total points, they will receive 24 transfer credits. HL classes will be considered first, and then SL classes will be accepted to reach 24 credits. If the student earns a certificate or scores below 30 total points, only HL classes will be considered for transfer. No classes with a score under 4 will be considered for transfer.

## How to prepare for the IB Program

Below is a list of classes recommended, but not required, to be prepared for the upper level IB Coursework at GRHS. Further developing skills such as organization, time management and determination will also benefit students entering the program and increase the likelihood of her/his success.

English	Math	Science	Social	Foreign Language
Advanced English 9 Advanced English 10	Intermediate Algebra Geometry Advanced Algebra	Advanced Science 9 College Prep Biology	Advanced Government 9 Advanced Geography 9 Advanced US History	Spanish I Spanish II -or- German II



## COLLEGE in the SCHOOLS (CITS)

College in the Schools is a concurrent enrollment program in conjunction with the University of Minnesota-Duluth. Concurrent enrollment allows students to earn both college and high school credit in a course. The courses are University of Minnesota Regents approved courses taught by Grand Rapids High School teachers approved as UMD adjunct professors. Grades and credits are recorded on a permanent, official UMD transcript. ***Students must have a 3.0 cumulative GPA to register with UMD.***

A survey of college students that took CITS courses showed that their credits transferred successfully over 95% of the time. The students benefited through being exempted from required courses, gaining credits on their college transcript, and entering college with the ability to enroll in more advanced coursework. This can ultimately save students money but more often students noted that they used the advancement in credit to explore other courses and possibly pursue a minor within their 4 years of undergraduate studies.

### UMD provides the student with:

- Undergraduate status, with all the privileges of on-campus students.
- Access to computing services, including e-mail, internet access and E-Portfolio.
- Photo identification card, the “U Card”, which provides access to UMD services and discounts to events.
- Full access to the UMD Library, including electronic resources, online databases, reference librarian assistance, and interlibrary loan.
- Campus visits.
- Transcribed college credits upon completion of the course.
- Assistance in gaining recognition, if needed, for CITS credits at other post-secondary institutions.

### CITS Courses

*Course descriptions are under the subject area in this guide.*

Course	GRHS Course #	UMD Course #	Credit Subject Area	UMD Credits
IB/CITS History of Europe 11	1111 & 2106	HIST 1207	Social	4
IB/CITS History of Europe 12	1108 & 2108	HIST 1208	Social	4
IB/CITS Geography	1109	GEOG 1205	Social	3
IB/CITS English 11	1038	ENGL 1907	English	3
IB/CITS English 12	1040	ENGL 1120	English	3
CITS Economics	1116	ECON 1003	Social	3
CITS Health Science Terminology	1307	HLTH 1104	Elective	3
IB/CITS Calculus	1220 & 2221	MATH 1296	Math	5
IB/CITS Spanish IV	1429 & 2430	SPAN 1201	Elective	4
IB/CITS Chemistry I & II	1336 & 2336 1337 & 2337	CHEM 1153 CHEM 1154	Science	5

**Total UMD Credits: 37**

## GRAND RAPIDS HIGH SCHOOL

### College in the Schools (CITS) College Credit Pathway

2022/2023

## CITS Pathway

College in the Schools is a concurrent enrollment program in conjunction with the University of Minnesota-Duluth. Concurrent enrollment allows students to earn both college and high school credit in a course. The courses are University of Minnesota Regents approved courses taught by Grand Rapids High School teachers approved as UMD adjunct professors. Grades and credits are recorded on a permanent, official UMD transcript. **Students must have a 3.0 cumulative GPA to register with UMD** and have the opportunity to earn College Credit through high school courses.

### Benefit of taking College in the Schools



The College in the Schools program through UMD offers college level curriculum in the high school setting. Students are able to select a challenge balance of courses offered at GRHS. Students have the ability to explore the depths of interests, develop skills necessary to be successful at the college level, while earning University of Minnesota Duluth credit while taking classes in high school.

### International Baccalaureate and CITS

Another benefit of the CITS coursework at Grand Rapids High School, is the partnership between the CITS coursework and the International Baccalaureate program. Not only do students taking an IB/CITS course get the benefit of the UMD credit but also get the benefit of the rigorous college preparatory curriculum offered through the IB program. See the IB Pathway for more information.

### Why CITS

A survey of college students that took CITS courses showed that their credits transferred successfully into required areas over 95% of the time. The students benefited through being exempted from required courses, gaining credits on their college transcript, and entering college with the ability to enroll in more advanced coursework. This can ultimately save students money but more often students noted that they used the advancement in credit to explore other courses and possibly pursue a minor within their 4 years of undergraduate studies.

#### Top 5 reasons take a CITS course:

- ✓ Further develop time management skills
- ✓ Increase opportunity to earn scholarships and increase likelihood of admission for college
- ✓ Explore specific fields of study in depth
- ✓ Make room for diverse experiences
- ✓ Save money by earning college credit

## Grand Rapids Students With CITS UMD Credit

Many of our GRHS students take advantage not only of the curriculum but also of the credit earned through the UMD CITS courses.



**37 UMD Credits =  
over \$17,500 in tuition savings**

**By taking the available UMD CITS courses at GRHS, students can earn as many as 37 UMD Credits or over one academic year towards college/university work!**

### How to prepare for the CITS Program

Below are a list of classes recommended but not required to be prepared for the IB program and/or taking an IB course at GRHS. Further developing skills such as organization, time management and determination will also benefit students entering the program and increase the likelihood of her/his success.

Requirements for the CITS Program: There is no requirement to register for the CITS curriculum at GRHS however, ***Students must have a 3.0 cumulative GPA to register with UMD*** and have the opportunity to earn college credit through high school courses.

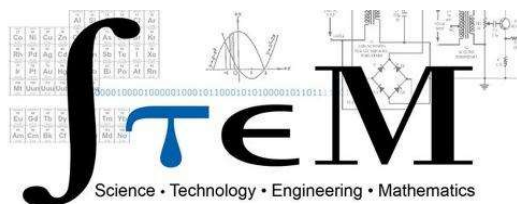
English	Math	Science	Social
Advanced English 9	Intermediate Algebra	Advanced Science 9	Advanced Government 9
Advanced English 10	Geometry	College Prep Biology	Advanced Geography 9
	Advanced Algebra		Advanced US History



**GRHS College in the Schools (CITS) Courses through UMD**

**2022-2023**

<b>UMD Course</b>	<b>UMD Course #</b>	<b>GRHS Course</b>	<b>GRHS Course #</b>	<b>Credit Subject Area</b>	<b>UMD Credits</b>
HIST 1207 Dawn of Modern Europe	HIST 1207	IB/CITS History of Europe 11	1111 & 2106	Social	4
HIST 1208 Europe in the Modern Age	HIST 1208	IB/CITS History of Europe 12	1108 & 2108	Social	4
GEOG 1205 Our Globalizing World	GEOG 1205	IB/CITS Geography	1109	Social	3
ENGL 1907 Introduction to Literature	ENGL 1907	IB/CITS English 11	1038	English	3
WRIT 1120 College Writing	ENGL 1120	IB/CITS English 12	1040	English	3
ECON 1003: Economics & Society	ECON 1003	CITS Economics	1116	Social	3
HLTH 1104 Health Science Terminology	HLTH 1104	CITS Health Science Terminology	1307	Elective	3
MATH 1296 Calculus I	MATH 1296	IB/CITS Calculus	1220 & 2221	Math	5
SPAN 1201 Intermediate Spanish I	SPAN 1201	IB/CITS Spanish IV	1429 & 2430	Elective	4
CHEM 1153 General Chemistry I and CHEM 1154 General Chemistry Lab	CHEM 1153 CHEM 1154	IB/CITS Chemistry I & II	1336 & 2336 1337 & 2337	Science	5



## **Grand Rapids Engineering**

**An exciting opportunity for students interested  
in Science, Technology, Engineering, and Math**

**#1302 & #2302 Advanced Physical Science 9:** Advanced Physical Science is a science that studies matter, motion, and energy. The course objective is to have the learner understand basic concepts in chemistry and physics as well as an understanding of the engineering design process. This course will include laboratory and inquiry work as well as hands-on projects of varying complexity as they relate to science and engineering. Students who take this course should have a strong math and science background. Additionally, due to the accelerated pace and depth of content, students should have the academic skills necessary to succeed in an advanced course.

**#1603 Engineering Design with Solidworks:** This introductory design and engineering course designed to be a starting point for basic computer aided drafting. Students will learn the basics of Solidworks, 2D design and processing, and 3D parametric solid modeling. This course is designed to take students through the design process, working from an idea through final production. *\*Option for credit at Itasca Community College via portfolio.*

**#1611 Advanced Engineering Design with Solidworks:** This is an advanced engineering course building off Engineering Design with Solidworks and other skills students bring to the class. This is a hands-on class where students will be building, modeling, testing, and redesigning to create a quality product. Students will be using Solidworks and CNC machines along with hands-on skills to create their products.

### **Relevant Engineering Coursework**

#### **Foundation Courses:**

Advanced Physical Science  
Engineering Design w/Solidworks  
Intermediate Algebra  
Geometry  
Advanced Algebra  
Physics and/or Chemistry

#### **Specialization Courses:**

Advanced Engineering Design w/Solidworks  
IB Pre-Calculus  
IB/CITS Calculus  
GIS Mapping and Droid Technology  
Advanced GIS



## IASC Next Pathways Overview

Next Career Pathways started as a solution to an ever-growing problem in the region. Employers needed skilled workers, yet the false narrative of ‘there are no good jobs in Northeast MN’ was pulling students elsewhere after graduation. Education organizations and employers recognized the opportunity to better support these students through making them aware of the job opportunities that were available in the region.

Together, the Itasca Area Schools Collaborative (IASC), Itasca Community College, and the local business community KNEW they could do better and that there wasn’t going to be a one-source solution but a collective effort around designing a robust student career-development experience. And so, Next Career Pathways was born.

The question was this... “What can communities do to better support our youth and create a place where students and businesses can thrive together?”

Career Pathways deep dives career exploration within our communities—beyond the four walls of a

classroom—to refine career trajectory of students, create critical moments and define milestones for students building their own identity as future professionals, and work to help students connect their education and career preparation.

### What does this mean for students?

You have pathway options relevant to our region. The seven career pathways are:

1. Business Career Pathway
2. Construction Career Pathway
3. Computer Science Career Pathway
4. Education Career Pathway
5. Healthcare Career Pathway
6. Manufacturing Career Pathway
7. Natural Resources/ Agriculture Career Pathway

Next Career Pathways is all about empowering and energizing students through unique opportunities. Communities and businesses believe in you and they want to provide you with internships, work experience, high school and even college credits. You will be given opportunities to check out the seven career pathways that are in demand, and the high-wage jobs that are available regionally and statewide.

By taking classes already at your high school you can explore careers with hands-on experiences like self assessments, career explorations, job shadows, tours, career fairs, mentorships, leadership opportunities, student organizations and internships.

Learn more by talking to pathway teacher, counselor or visit [nextpathways.org](https://nextpathways.org)

# Next Career Pathways Student Experience





## GRAND RAPIDS HIGH SCHOOL

### BUSINESS CAREER PATHWAY

The Business Career Pathway explores careers in law, marketing, entrepreneurialism, accounting, management, and more. Business career possibilities are endless; this pathway is for students who are creative, entrepreneurial-minded, like working with people and in teams, have lots of ideas and passion, and are interested in design and development of products. Put your business interest in action through hands-on experiences in BPA!

To complete the Business Career Pathway, choose any 2 classes from the core business pathway class list below, AND 1-2 classes from your series of choice

#### Core Business Pathway Classes

Exploring the World of Business

Multimedia Applications

Money Matters

Website Design I

Marketing

Accounting I

Keyboarding & Business Communications

#### Entrepreneurship Series

Hospitality and Tourism

Website Design II

Graphic Design Using Adobe InDesign

IB Business Management

#### Business Management & Finance Series

Accounting II

Personal Law

IB Business Management

#### Business Technology Series

PC Technology

App Development and Coding

Website Design II

#### Marketing Series

Sports & Entertainment Marketing

Hospitality and Tourism

Graphic Design Using Adobe InDesign

Student Organization Recommended: Business Professionals of America (BPA)

### REASONS TO JOIN THE BUSINESS CAREER PATHWAY

The average salary of an employee in

FINANCE/ACCOUNTING

IN NORTHEAST MINNESOTA

is  
**\$30.48**  
per hour

There will be a need for

**46,705**

GENERAL/OPERATIONS

MANAGERS in Minnesota

between

**2018-2028**

Of the **TOP 100**

HIGHLY DEMANDED CAREERS

in Northeast Minnesota

**25 PERCENT**

of them are

RELATED TO BUSINESS

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## GRAND RAPIDS HIGH SCHOOL

### CONSTRUCTION CAREER PATHWAY



The Construction Career Pathway explores careers such as carpentry, woodworking, construction management, plumbing, electrician, engineering, technicians, metal workers, and more. Construction Trades are for students who are hands-on, visual learners, are active and work hard, and who enjoy building and making.

Required Pathway Courses	Recommended Pathway Courses
Carpentry	Basic Electricity
Woodworking	Welding and Fabrication
Advanced Woodworking	AVID (by application)
Welding	
Construction Careers Internship	

### REASONS TO JOIN THE CONSTRUCTION CAREER PATHWAY



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## GRAND RAPIDS HIGH SCHOOL

### COMPUTER SCIENCE CAREER



The Computer Science Career Pathway explores careers that involve the design, development, support and management of hardware, software, multimedia, and systems integration services. Careers in computer science are for students who are creative and enjoy seeing ideas come to life, have a passion for computers and technology, are problem solvers and seek out challenges.

Required Pathway Courses	Recommended Pathway Courses
Adobe Photoshop	Game IT 2
Design & Print	Game IT 3
Intro Coding/App Development/Computer Science	Website Design II
PC Technology	AVID (by application)
Game IT I	
Website Design I	

### REASONS TO JOIN THE COMPUTER SCIENCE CAREER



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## GRAND RAPIDS HIGH SCHOOL

### EDUCATION CAREER PATHWAY



The Education Career Pathway prepares students for a career in teaching. Education careers are for students who enjoy working with kids and serving others, are enthusiastic and passionate about learning, and are creative!

Required Pathway Courses	Recommended Pathway Courses	
CIS Introduction to Teaching <small>Telepresence</small>	English 12	
CIS Class Act Seminar II <small>Online from Greenway</small>	Interested in teaching Early Childhood & Elementary	Interested in teaching Middle School & High School
Biology 10		
	College Prep Physics with Astronomy	Additional content courses in the area/s you might want to teach such as Physical Education, Social Studies, Music, Science, English, etc.

### REASONS TO JOIN THE EDUCATION CAREER PATHWAY

**TRANSFER SEAMLESSLY**

into Itasca Community College's Class Act Program to finish your

**TWO-YEAR DEGREE**

program in Education with the option to complete your four-year degree in elementary education at ICC through St. Scholastica

In the education career pathway explore additional

**EDUCATION CAREERS**

like

 Early Childhood Teacher, Social Work, Coach, or School Counselor, too

Between 2018–2028 the MN K–12 Education System will need a total of

**44,293**

**NEW TEACHERS**

**18,740** in elementary | **9,333** in middle school | **16,220** in high school

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## GRAND RAPIDS HIGH SCHOOL

### MANUFACTURING CAREER PATHWAY

The Manufacturing Career Pathway explores careers fields such as welding, machining, computer-numerical-controlled (CNC) technology, fabrication, engineering, drafting, and more. Manufacturing careers are for students who have the "dream it, do it" mentality and are ready to transform raw materials into high-quality finished products.

Required Pathway Courses		Recommended Pathway Courses	
Welding I	Engineering Design with Solidworks	Basic Electricity	Design and Print I
Welding and Fabrications	Fabrication and Design	Woodworking	Design and Print II
Basic Machining/Metals	Community Internships: Manufacturing	Advance Woodworking	AVID (by application)
		Advanced Engineering with Solidworks	

### REASONS TO JOIN THE MANUFACTURING CAREER PATHWAY



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## GRAND RAPIDS HIGH SCHOOL

### NATURAL RESOURCES & AGRICULTURE CAREER PATHWAY

The Natural Resources and Agriculture Career Pathway explores careers in the food, fiber, and natural resources public and private industries such as forestry, logging, geographic information systems (GIS), wildlife management, fisheries, environmental science, and more. Natural Resources and Agriculture careers are for students who enjoy learning about plants, animals, and

Wildlife Series	Forestry Series	Specialty Natural Resources Classes
Large Wildlife Management	Forestry	Personal Leadership & Development
Small Wildlife Management	Woodland Stewardship	GIS & Drone Technology
Fisheries & Aquatic Systems	Greenhouse/Landscaping	Adv. GIS & Drone Technology
Wide World of Animals	Personal Leadership & Development	CITS Natural Resource Management
Personal Leadership & Development	GIS & Drone Technology	Agriculture & Natural Resource Projects
GIS & Drone Technology	Adv. GIS & Drone Technology	Minnesota Foods
Adv. GIS & Drone Technology	CITS Natural Resource Management	AVID (recommended - by application)
CITS Natural Resource Management	Agriculture & Natural Resource Projects	
Agriculture & Natural Resource Projects	Natural Resources Career Internship	
Natural Resources Career Internship	AVID (recommended - by application)	
AVID (recommended - by application)		

To complete the Natural Resources and Agriculture Career Pathway, students must complete a minimum of 2 credits from the courses listed above.

### REASONS TO JOIN THE NATURAL RESOURCES & AGRICULTURE CAREER

The average  
**FORESTER**  
in Minnesota makes  
**\$30.91**  
per hour

CONTINUE YOUR  
pathway education  
**LOCALLY**  
at  
VERMILION or ITASCA  
COMMUNITY COLLEGE  
in programs such as  
Natural Resources, Water  
Management, Fisheries,  
Conservation Officer, Wildland  
Firefighting, or Land Surveying.

In Northeast Minnesota the  
**FORESTRY and  
AGRICULTURE INDUSTRIES**  
support  
**13,983** JOBS  
which account for an estimated  
**10.8%** of total jobs  
in the area

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# ENGLISH

4 credits of English are required to graduate from Grand Rapids High School



Sequence of course offerings by grade:

	Grade Level Track		Advanced Track
9 <sup>th</sup>	English 9		Advanced English 9
10 <sup>th</sup>	<u>Semester 1</u> English 10	<u>Semester 2</u> <u>English 10 Lit (choose 1):</u> Hero Journey & Quest Lit Lit of Global Events	Advanced English 10
11 <sup>th</sup>	<u>English 11 Lit (choose 2):</u> Coming of Age Lit Dystopian Lit Survival Lit		IB/CITS English 11
12 <sup>th</sup>	Mystery Lit Darkside Lit		IB/CITS English 12

**#1005 & #2005 ENGLISH 9****Duration:** 1 year**Credit:** ½ credit per semester**Open to:** 9

**Description:** English 9 focuses on the development of reading strategies in the reading process to comprehend and evaluate various works of fiction and non-fiction. Students will use the writing process to compose narrative and expository pieces, as well as a research piece. In this course, students will speak for a variety of purposes and begin the listening and viewing process in regard to communication through the media.

**#1006 & #2006 ADVANCED ENGLISH 9****Duration:** 1 year**Credit:** ½ credit per semester**Open to:** 9

**Description:** Advanced English 9 focuses on the development of reading strategies in the reading process to comprehend and evaluate various works of fiction and non-fiction. Students will compose narrative, descriptive and expository pieces, as well as a research piece, through the use of the writing process. In this course, students will speak for a variety of purposes and begin the listening and viewing process in regard to communication through the media.

**#1024 ENGLISH 10****Duration:** 1 semester**Credit:** ½ credit**Open to:** 10

**Description:** In English 10, students will further develop and apply their reading strategies in comprehension and evaluation through both fiction and non-fiction works. The writing process will be used with a focus on creative writing. Students will continue to speak, view, and listen for a variety of audiences and purposes including communication through the media.

**#1026 ENGLISH 10 ELECTIVES: LITERATURE OF GLOBAL EVENTS****Duration:** 1 semester**Credit:** ½ credit**Open to:** 10

**Description:** This 10th grade elective will encompass an in depth analysis of genocide in the 20th century. Students will define genocide within a variety of contexts while examining stories from survivors of the Armenian genocide, the Holocaust, and other genocide events in Darfur, Rwanda, Cambodia and Ukraine. Stories in this genre are told from multiple perspectives, including victim, bystander, upstander, perpetrator, resistor and rescuer. Students will examine how genocide events happen and how communities heal in the aftermath.

**#1027 ENGLISH 10 ELECTIVES: HERO JOURNEY AND QUEST  
LITERATURE**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10

**Description:** What do Hercules, Luke Skywalker, Bilbo Baggins, Harry Potter, and Katniss Everdeen have in common? They all took similar paths to become heroes. From unusual births to supernatural helpers to showdowns with evil, all heroes take the same steps to become immortalized in literature. If you like Greek mythology, science-fiction, and fantasy while looking at the heroes of those stories, then look no further than Quest Lit!

**#1046 & #2046 ADVANCED ENGLISH 10**

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10

**Description:** American authors from various time periods, one Shakespearian play, and world literature works are studied. This course meets the requirements of English 10 and is designed as a preparation for the advanced IB and CITS English courses offered in the 11<sup>th</sup> and 12<sup>th</sup> grades.

**#1016 ENGLISH 11: SURVIVAL LITERATURE**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11

**Description:** Is Gary Paulsen's *Hatchet* the last book you've actually read cover to cover? Join us for a class studying the literature of the outdoors where we'll read books and look at texts about survival as well as hunting, fishing, hiking, and mountain-climbing in both the fiction and nonfiction genres. Hands-on learning experiences included.

## **#1017 ENGLISH 11: CLASSIC AND CONTEMPORARY DYSTOPIAN LITERATURE**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11

**Description:** From George Orwell's *1984* and Margaret Atwood's *The Handmaid's Tale* to Ernest Cline's *Ready Player One*, examine what happens when a society and its people go terribly wrong. This course focuses on how author's create fictional societies in literature that mirror some or all of society's social problems to call attention to real-world issues. It also focuses on how literature can influence society as an instrument of change and propose solutions through powerful storytelling. Students will analyze and compare various works of dystopian literature via discussion and writing, and do research to find connections between truth and fiction.

## **#1019 ENGLISH 11: THEMES IN COMING OF AGE LITERATURE**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11

**Description:** Heartaches and Hard-Won Wisdom - Told by people like you as they work through this crazy thing called 'life,' the stories in these novels are highly-interesting and entertaining, and may serve as a guide through some common issues such as relationships, family struggles, the search for identity, sexuality, and learning to survive through seemingly earth-shattering challenges.



## **#1038 & #2040 IB/CITS ENGLISH 11: UMD ENGL 1907: INTRODUCTION TO LITERATURE**

**Requirements needed:** for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 3 semester credits in semester 1

**Open to:** 11

**Description:** IB English 11/CITS ENGL 1001 is the first year of a two-year upper level course which studies the world wide IB curriculum. The class stresses literary studies and applies in-depth reading strategies through analysis of important texts in both the American and world literary tradition. Throughout the year, students will have the opportunity to analyze, discuss, and write about a wide range of texts. In order to interpret these readings, students will also acquire a solid understanding of the important elements of literary analysis. **This course receives weighted grading.**

### #1014 ENGLISH 12: MYSTERY LITERATURE

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 12

**Description:** “There was no one on the island but their eight selves.” -**Agatha Christie, *And Then There Were None***

Love the thrill of solving a mystery? Ever been late to something important because you HAD to know whodunit? Then this is the course for you! In this course, students will investigate the structure of the detective story and assess the influence of historical events on this popular genre. Students will use their greater understanding of the detective story to produce a multi-genre research project or a detective story of their own for publication.

### #1013 ENGLISH 12: THE DARK SIDE OF GOTHIC LITERATURE

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 12

**Description:** “And in Crouch End, which is really a quiet suburb of London, strange things still happen from time to time, and people have been known to lose their way. Some of them lose it forever...”-- **Stephen King, *Crouch End***

Come and learn about “The Dark Side” of literature where you’ll read stories from the master of horror Stephen King, as well as other horror/gothic authors like Edgar Allan Poe, Neil Gaiman, Bentley Little, Peter Straub, and others. You will explore horror concepts like The Deal with the Devil, The Apocalypse, Ghosts and Haunted Places, Superstitions, and more in a project-based learning environment. So come to the Dark Side....if you dare! Mwaahahahahahah!



### #1040 & #2042 IB/CITS ENGLISH 12: **UMD ENGL 1120: COLLEGE WRITING**

**Requirement(s) needed:** for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 3 semester credits in semester 1

**Open to:** 12

**Description:** A continuation of IB English 11, the 12<sup>th</sup> grade course stresses deep reading of works as varied as Shakespeare’s *Hamlet* and Adichie’s *Purple Hibiscus*. Students must complete an Individual Oral Commentary and sit for two IB essay exams (\$25 per student/free for diploma candidates and free/reduced lunch students). College credit may be earned through adequate IB test scores. The class focuses on developing academic writing skills in the context of authors Henry David Thoreau, William Shakespeare, John Keats, Chimamanda Adichie, Charlotte Bronte, Tim O’Brien, and John Steinbeck. **This course receives weighted grading. Students are required to take the IB Exam.**

# SOCIAL STUDIES

3.5 credits of Social are required to graduate from Grand Rapids High School



Sequence of course offerings by grade:

	Grade Level Track		Advanced Track	
9 <sup>th</sup>	<u>Semester 1</u>  Government 9	<u>Semester 2</u>  Geography 9	<u>Semester 1</u>  Adv. Government 9	<u>Semester 2</u>  Adv. Geography 9
10 <sup>th</sup>	US History		Advanced US History	
11 <sup>th</sup>	World History I (.5 credit) AND World History II (.5 credit) or IB/CITS History of Europe 11 or IB/CITS Geography		IB/CITS History of Europe 11 & 12  or IB/CITS History of Europe 11 AND IB/CITS Geography	
12 <sup>th</sup>	Economics CITS Economics			

11th and 12 grade electives
Psychology
Sociology

\*Economics or CITS Economics is REQUIRED for any student NOT taking a full credit of IB Social in BOTH junior and senior year



### **#1101 GOVERNMENT 9**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9

**Description:** Students will use inquiry, critical thinking, problem solving, and communication to study civics. Students will focus their learning on the five major sub-strands of citizenship and government which include civic skills, civic values and the principles of a democracy, rights and responsibilities, governmental institutions and processes, and relationships of the U.S. to other nations and organizations.

### **#1100 GEOGRAPHY 9**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9

**Description:** Students will use inquiry, critical thinking, problem solving, and communication to study the geography of the world. Students will focus their learning on the four major sub-strands of geographic study including geospatial skills, places and regions, human systems, and human environment interaction.

### **#1400 ADVANCED GOVERNMENT 9**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9

**Description:** Students will use inquiry, critical thinking, problem solving, and communication to study civics. Students will focus their learning on the five major sub-strands of citizenship and government which include civic skills, civic values and the principles of a democracy, rights and responsibilities, governmental institutions and processes, and relationships of the U.S. to other nations and organizations. Students registering for this course should have advanced reading comprehension, be academically driven, and self-motivated. The pace and depth of this course will be greater than Government 9 as it is designed as preparation for 11<sup>th</sup> and 12<sup>th</sup> grade IB and CITS courses.



**#1103 ADVANCED GEOGRAPHY 9****Duration:** 1 semester**Credit:** ½ credit**Open to:** 9

**Description:** Students will use inquiry, critical thinking, problem solving, and communication to study the geography of the world. Students will focus their learning on the four major sub-strands of geographic study which include geospatial skills, places and regions, human systems, and human environment interaction. Students registering for this course should have advanced reading comprehension, be academically driven, and self-motivated. The pace and depth of this course will be greater than Geography 9 as it is designed as preparation for 11<sup>th</sup> and 12<sup>th</sup> grade IB and CITS courses.

**#1105 & #2105 U.S. HISTORY 10****Duration:** 1 year**Credit:** ½ credit per semester**Open to:** 10

**Description:** Students will study and examine historical developments in U.S. History chronologically as well as thematically. During Semester 1, students will study a range of topics from ‘pre-contact’ through the 1920s (including colonization, westward expansion, the American Civil War, Industrial Revolution, World War I, etc.). Second semester topics will range from the Great Depression into the present era (including World War II, the Cold War, Vietnam War, etc.).

**#1106 & #2104 ADVANCED U.S. HISTORY 10****Duration:** 1 year**Credit:** ½ credit per semester**Open to:** 10

**Description:** This advanced level course is designed as a college and IB preparatory course. Students registering for this course should have above average reading comprehension, be academically driven and self-motivated. The pace and depth of this course will be greater than regular U.S. History. A critical study of major historical developments will be examined chronologically as well as thematically. During Semester 1, students will study a range of topics from ‘pre-contact’ through the 1920s (including colonization, westward expansion, the American Civil War, Industrial Revolution, World War I, etc.). Second semester topics will range from the Great Depression into the present era (including World War II, the Cold War, Vietnam War, etc.).

**#1107 WORLD HISTORY I\*****Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This class presents fundamental events and developments in world history from prehistory to the Renaissance. The origins and the development of culture and world societies are explored as well as diverse events and innovations that helped shape our modern world. In this class students will examine a diverse range of cultures and development of social, political, intellectual, religious, scientific, and artistic movements through time and throughout the world.

**\*This course is required if you do not take IB/CITS Social Studies.**

**#2103 WORLD HISTORY II\*****Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This class presents fundamental events and developments in world history from the Reformation to the present. The origins and the development of culture and world societies are explored as well as diverse events and innovations that helped shape our modern world. In this class students will examine a diverse range of cultures and development of social, political, intellectual, religious, scientific, and artistic movements through time and throughout the world.

**\*This course is required if you do not take IB/CITS Social Studies.**

**#1110 ECONOMICS\*****Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This course aims to provide students with the knowledge in economics to become informed consumers, producers, and citizens in today's world. Specific units will cover microeconomic issues such as the law of supply and demand, factors of production, and the business cycle. Macroeconomic issues will include money and banking, monetary and fiscal policy, international trade and comparative economic systems. We will be touching on the history of economic thought as well as current economic issues. The ever-changing nature and the importance of the global economy make this an exciting and challenging course.

**\*This course is required if you do not take IB/CITS Social Studies for two years.**



**#1116: CITS ECONOMICS: *UMD ECON 1003 ECONOMICS & SOCIETY***

**Requirement needed:** for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**UMD Credit:** 3 semester credits in semester 1

**Open to:** 11-12

**Description:** The course has two objectives. The first is to develop an understanding of the basics of economics. The second is to learn how to apply economics to real-world problems. It will attempt to answer questions like: How are prices of things decided? What types of businesses are there and how do they compete with each other? Should the government be involved in economics or should they stay out of the way? How do banks work? What decides how some people have more wealth than others? How come the government can be in debt, but I have to watch my spending? How do the economic headlines in the news pertain to me?



**#1109 & #2107 IB/CITS GEOGRAPHY: *UMD GEOG 1205 Our Globalizing World***

**Requirement needed:** for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD:** 3 semester credits in semester 1

**Open to:** 11-12

**Description:** In a globalizing world, good geographic education is now more important than ever. As a broad social science concerned with humanity's impact on the Earth's surface, this course is an introduction to the global perspectives, basic concepts, and fundamental questions of geography. It focuses on the ways through which all places on Earth are interconnected. Major topics covered will be the human perception of earth space and the ways people give order to space; human groups in diverse settings; the growth and distribution of human population; the localization and spatial characteristics of patterns of settlement and land use; resource use and consumption; environmental geography; the geography of economic development and modernization; the geographic analysis of issues including gender issues, racism, poverty, leisure, and religion. **This course receives weighted grading for IB enrolled students.**

### **#1117 PSYCHOLOGY**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** Psychology is the study of human behavior and mental processes. It covers what individuals think, feel and do. Specific topics include: methods of psychology, the workings of the brain and brain chemicals, stress and conflict, mental disorders, mental health, human development, developmental stage theory, sleep and dreams, sensation and perception, personality, the process of learning, creativity and intelligence and the social impact of and on relationships. This course will include lively discussion, participation in experiments and relating course material to personal and social experiences.

### **#1112 SOCIOLOGY**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** Sociology is the study of people, groups, and societies. It is a way of seeing and understanding the social world we live in which shapes our lives. Students will be asked to think critically and evaluate complex human social issues, participate in meaningful discussions, and communicate clearly, creatively, and effectively. Topics that may be explored include: race, culture, relationships, family structure, gender, personal identity, poverty, wealth, crime, conflict, and gangs.



### **#1111 & #2106 IB/CITS HISTORY of EUROPE 11: *UMD HIST 1207 DAWN of MODERN EUROPE***

**Prerequisite for:** IB/CITS History of Europe 12: UMD Hist 1208 Our Globalizing World

**Requirement(s) needed:** for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 4 Semester Credits

**Open to:** 11 (and 12<sup>th</sup> graders looking for UMD credit & not on the IB track)

**Description:** IB European History 11 includes a 4 credit UMD course “Dawn of Modern Europe”. Dawn of Modern Europe is a study of some of the formative events shaping modern Europe. Areas of study include the Middle Ages, Renaissance and Reformation, Scientific Revolution, Political Absolutism, Enlightenment, French Revolution, and the rise of nationalism and imperialism in Europe. There will be an emphasis on historical research, source analysis, and academic writing skills. Research and essays are included as course requirements. This course is designed for juniors interested in the IB program or looking for UMD college credit. Because this course meets both IB and UMD requirements, it is designed to be more intensive than other high school courses. **This course receives weighted grading for IB enrolled students.**



**##1108 & #2108 IB/CITS HISTORY of EUROPE 12: *UMD HIST 1208 EUROPE in the MODERN AGE***

**Requirement needed:** IB European History 11 (for students on the IB track), for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 4 semester credits

**Open to:** 12

**Description:** IB/CITS History of Europe 12 includes a 4 credit UMD course, “Europe in the Modern Age”. Europe in the Modern Age is a primary source driven, college-level study of 20<sup>th</sup> century Europe. Students will serve as historiographers in their study of causes & effects of war, nationalist and independence movements, political experiment, peacemaking & peacekeeping, international relations, and the cold war among other selected topics. A historical investigation research paper and academic writing are course requirements. **This course receives weighted grading for IB enrolled students. Exam fees are required if you choose to take the IB test.**



# MATHEMATICS

Students need 3 credits of math to graduate but some 4 year colleges require 4 credits.

**Mathematics courses are to be taken in sequence.** For example, do not register for Advanced Algebra until you have completed, with a passing grade, Intermediate Algebra and Geometry. Students only need to advance through Advanced Algebra, but additional math is **strongly encouraged** for any student planning to continue their education after high school.



**Sequence of course offerings by grade:**

	<b>Grade Level Track</b>	<b>Advanced Track</b>
<b>8<sup>th</sup></b>	<b>Pre-Algebra</b>	<b>Intermediate Algebra</b>
<b>9<sup>th</sup></b>	<b>Intermediate Algebra</b>	<b>Geometry</b>
<b>10<sup>th</sup></b>	<b>Geometry</b>	<b>Advanced Algebra</b>
<b>11<sup>th</sup></b>	<b>Advanced Algebra</b>	<b>IB Pre-Calculus or College Prep Math with Statistics</b>
<b>12<sup>th</sup></b>	<b>IB Pre-Calculus or College Prep Math with Statistics</b>	<b>College Prep Math with Statistics or IB/CITS Calculus</b>

### **#1212 & #2212 INTERMEDIATE ALGEBRA**

**Prerequisites for:** Geometry

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 9-10

**Description:** The content of Intermediate Algebra is organized around families of functions, with special emphasis on linear and quadratic functions. As you study each family of functions, you will learn to represent them in multiple ways - as verbal descriptions, equations, tables, and graphs. You will also learn to model real-world situations using functions in order to solve problems arising from those situations. In addition to its algebra content, Intermediate Algebra includes lessons on probability and data analysis. *Students are required to have a Texas Instrument TI-83 or TI-84 calculator.*

### **#1213 & #2213 GEOMETRY**

**Requirement(s) needed:** Intermediate Algebra

**Prerequisites for:** Advanced Algebra

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 9-10-11

**Description:** In Geometry, students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems. In addition to its geometry content, Geometry includes numerous examples and exercises involving algebra, data analysis, and probability. *Students are required to have a Texas Instrument TI-83 or TI-84 calculator.*

### **#1214 & #2214 ADVANCED ALGEBRA**

**Requirement(s) needed:** Intermediate Algebra and Geometry

**Prerequisite for:** College Prep Math with Statistics, IB Pre-Calculus

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10-11-12

**Description:** The content of Advanced Algebra is organized around families of functions, including linear, quadratic, exponential, radical, and rational functions. As students study each family of functions, students will learn to represent them in multiple ways - as verbal descriptions, equations, tables, and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations. Advanced Algebra also includes lessons on probability and data analysis as well as numerous examples and exercises involving geometry and trigonometry. *Students are required to have a Texas Instrument TI-83 or TI-84 calculator*





### **#1218 & #2219 IB PRE-CALCULUS OR #1202 & #2202 for “Early Bird”**

**Requirement(s) needed:** Advanced Algebra

**Prerequisite for:** IB/CITS Calculus

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** The intent of this course is to continue the flow of mathematics, as a student makes the transition from specific functions to a more generalized view of functions and into the fundamental concepts of calculus. In the process of this transition some of the topics to be studied will be: an overview of linear, quadratic, cubic, log and trig functions; permutations; binomial expansion; series and sequences; limits; continuity; bounds; statistics and probability; set and logic theory. Earlybird starts at 7:30 a.m. and can be an 8<sup>th</sup> course. **This course receives weighted grading.**

### **#1223 & #2223 COLLEGE PREP MATH with STATISTICS**

**Requirement(s) needed:** Successful completion of 2 semesters each of Intermediate and Advanced Algebra and Geometry during the regular school year.

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 12 (11 w/instructor approval)

**Description:** College Prep Math is for those students who plan to pursue a post-secondary education option after their time at Grand Rapids High School. This course is designed to prepare students for the mathematics they will see in their future courses as well as general life applications they will encounter. The topics covered are number theory, exponents and radicals, finance, statistics, linear functions, quadratics, exponential and logarithms, and factoring. There is limited out-of-class work, creating a very applicable option as a mathematics elective!



### **#1220 & #2221 IB/CITS CALCULUS: *UMD MATH 1296 CALCULUS I***



**Requirement(s) needed:** IB Pre-Calculus and for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 5 semester credits

**Open to:** 12

**Description:** This course begins with a review of functions and progresses to Differential Calculus and Integral Calculus.. **This course receives weighted grading. Possible IB Exam fees.**

# SCIENCE

**3 credits of Science are required to graduate from Grand Rapids High School**

**1 credit MUST be in either Chemistry or Physics**



**Sequence of course offerings by grade:**

	<b>Grade Level Track</b>	<b>Advanced Track</b>
<b>9<sup>th</sup></b>	<b>Physical Science 9</b>	<b>Advanced Physical Science 9</b>
<b>10<sup>th</sup></b>	<b>Biology</b>	<b>College Prep. Biology</b>
<b>11<sup>th</sup></b>	<b>College Prep Chemistry or Coll. Prep Physics w/Astronomy</b>	<b>IB Chemistry I or IB Physics I</b>
<b>12<sup>th</sup></b>		<b>IB Chemistry II IB Physics II</b>

<b>11th and 12 grade electives</b>	
<b>Forensic Science</b> <b>Anatomy and Physiology I</b> <b>Anatomy and Physiology II</b> <b>Anatomy and Physiology III</b> <b>Brain Anatomy and Physiology</b>	<b>IB Biology I &amp; II</b> <b>CITS Health Terminology</b> <b>IB Chemistry I</b> <b>IB Physics I</b> <b>Ecology</b>

### **#1300 & #2300 PHYSICAL SCIENCE 9**

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 9

**Description:** Science 9 is a practical study of matter and energy. In one semester we study the classical physics of motion including concepts of gravity, velocity, acceleration, force, work, power, and energy. The six general forms of energy - mechanical, thermal, radiant, electrical, chemical, and nuclear, will be introduced. Students will study simple machines to better understand the concepts of mechanical advantage and efficiency. The other semester emphasizes the study of matter including discussion about the states of matter and a general classification of elements, compounds, and mixtures. The parts of the atom will be studied and the periodic table will be used to draw models of atoms of various elements to better understand which elements combine to form compounds and why they combine. Writing chemical formulas and balancing chemical equations will provide a fundamental understanding of chemistry and prepare students for further study.

### **#1302 & #2302 ADVANCED PHYSICAL SCIENCE 9**

**Requirement(s) needed:** None, **BUT** Intermediate Algebra or a B or better in Algebra in 8<sup>th</sup> grade is recommended.

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open To:** 9

**Description:** Advanced Physical Science is a science that studies matter, motion, and energy. The course objective is to have the learner understand basic concepts in chemistry and physics as well as an understanding of the engineering design process. This course will include laboratory and inquiry work as well as hands-on projects of varying complexity as they relate to science and engineering. Students who take this course should have a strong math and science background. Additionally, due to the accelerated pace and depth of content, students should have the academic skills necessary to succeed in an advanced course.

### **#1301 & #2301 BIOLOGY**

**Requirement(s) needed:** Physical Science

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10

**Description:** Biology is the study of life. Our knowledge of biology helps us understand how all of life on Earth is connected. The topics studied include cells and cell processes, energy in cells, body systems, genetics, evolution, and ecology. An ongoing part of the course is working with the scientific method, and studying Latin prefixes, roots, and suffixes. In May, all biology students take a state exam.

### **#1304 & #2304 COLLEGE PREP BIOLOGY**

**Requirements needed:** Physical Science

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10

**Description:** This sophomore level biology class is recommended to students considering a career in science. The pace will be accelerated and the topics will be taught at a rigorous level. Topics studies will include those covered in biology as well as genetic engineering, virology, and immunology. Lab skill development will also be emphasized.

### **#1310 & #2312 COLLEGE PREP CHEMISTRY**

**Requirement(s) needed:** Biology and Geometry

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** Chemistry is the central science. The study of chemistry is essential in helping us to understand all of the other sciences and the world around us. The focus of this class will be on inorganic chemistry. Topics include: Atomic theory, periodicity, bonding, predicting reactions, balancing equations, stoichiometry, acid-base reactions, gas laws, solutions, electrochemistry, kinetics, equilibrium, and organic chemistry. Students that are planning to go to college should be enrolling in chemistry. This is not IB Chemistry (which is a two year sequence and commitment), so the pace of learning is slower and every attempt will be made to assist the student in grasping the concepts being taught. Student evaluation is based on lab work, homework, class participation, quizzes and major exams.



**#1336 & #2336 IB/CITS CHEMISTRY I: *UMD CHEM 1153 GENERAL CHEMISTRY I and UMD CHEM 1154 GENERAL CHEMISTRY LAB***

**Requirement(s) needed:** Physical Science and Biology and for UMD credit, students must have a 3.0 cumulative GPA

**Prerequisite for:** IB Chemistry II: UMD CHEM 1153 General Chemistry and UMD CHEM 1154 General Chemistry Lab

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** Completing (in good standing) IB Chemistry I (junior year) and II (senior year) student will earn 5 UMD chemistry credits. **Credit issued upon completion of senior level IB Chemistry II**

**Open to:** 11

**Description:** This course is the first of a two year course designed for students who are completing the IB Diploma or considering careers in science-related fields after graduating from high school. Students interested in engineering, medicine, pharmacy, research, dentistry and other related fields should consider the IB Chemistry I and II sequence of courses. This course will cover all of the topics in chemistry at an accelerated level. Student evaluation is based on lab work, homework, quizzes, and major exams. **This course receives weighted grading.**



**#1337 & #2337 IB/CITS CHEMISTRY II: *UMD CHEM 1153 GENERAL CHEMISTRY I and UMD CHEM 1154 GENERAL CHEMISTRY LAB***

**Requirement(s) needed:** IB Chemistry I and for UMD credit, students must have a 3.0 cumulative GPA.

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 5 semester credits for the completion of IB/CITS Chemistry I and II

**Open to:** Seniors that have completed IB Chemistry I

**Description:** This course is the second of a two year IB program. Students who finish this course will take the IB HL Chemistry exam. The course is designed for students considering science-related fields after graduating from high school. Concepts learned in IB Chemistry I will be broadened. Student evaluation is based on lab work, homework, quizzes, major exams, and design and research projects. **This course receives weighted grading. Exam fees required.**

### **#1320 & #2322 COLLEGE PREP PHYSICS with ASTRONOMY**

**Requirement(s) needed:** Biology and Geometry

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** This course will include Physics semester 1 and Astronomy semester 2. This course will move at a rigorous pace as it will meet the Minnesota graduation requirement in physics. It will involve use of algebra and trigonometry while studying: the laws of motion, gravity, orbital motion, and momentum, light, waves, the electromagnetic spectrum, speed and acceleration. Semester 2 includes the history of Astronomy, our Earth, moon, and the other planets and moons in our solar system. Other topics will include galaxies, meteors, asteroids, comets, the Kuiper Belt and the birth, life cycle, and death of stars, including our Sun. This class will include notes, videos, projects, discussion, and presentations.



### **#1340 & #2340 IB PHYSICS I**

**Requirement(s) needed:** Biology, Advanced Algebra

**Prerequisite for:** IB Physics II

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** This course is designed for motivated students potentially interested in a science major or career. Topics covered in IB Physics I are kinematics, Newton's Laws, energy, momentum, waves and sound, global energy needs, and electricity (static and current). Course work will be in more depth than a standard course and will include lectures, experiments, demonstrations, videos, problem solving and discussions. **This course receives weighted grading.**

**NOTE:** Students going for the IB diploma should take IB Chemistry to meet their 3 HL courses requirement as no guarantee will be made that IB Physics II will be offered in the future.



### **#1342 & #2342 IB PHYSICS II**

**Requirement(s) needed:** Biology, Physical Science, IB Physics I. Ideally, students should be enrolled in IB Pre-Calculus or IB Calculus.

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 12

**Description:** This course is the second year of a two year higher level Physics course designed for the science oriented college bound student. *IB Physics II* continues with electricity and moves onto magnetism, light & optics, atomic and nuclear physics, quantum, and one option to be decided on (generally astrophysics or relativity). **This course receives weighted grading.**



### **#1305 & #2305 IB BIOLOGY I**

**Prerequisites for:** IB Biology I

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** This course is great for those interested in the biological or medical field as it is designed to prepare you for college courses. Topics of study include cellular structure and function, biochemistry, genetics, evolution, ecology, climate change, human anatomy and physiology plus one optional unit of study that the class selects. Lab work is an important component. Earning college credit for this course is possible. **This course receives weighted grading. Exam fees required.**



### **#1306 & #2306 IB BIOLOGY II**

**Requirement(s) needed:** IB Biology I

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 12

**Description:** This course is the second of a two year advanced, IB program that is designed for those considering a science-related field of study. The concepts of cells, microbiology, genetics, ecology and evolution from the first year will be built upon as well as the study of material in plant biology, anatomy and physiology and neurobiology and behavior. A personally designed lab will be conducted as a final project and is an exciting way to make the knowledge gained over two years of study personally relevant. Earning college credit in this course is possible. **This course receives weighted grading. Exam fees required.**

### **#1360 FORENSIC SCIENCE**

**Requirement(s) needed:** Physical Science and Biology

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** This course is intended for students interested in the science behind the investigation of crime scenes. Topics include fingerprinting, trace evidence, forensic anthropology, serology, forensic science careers and crime scene re-creation. This class has a heavy lab component.



**#1365 ECOLOGY****Prerequisites:** Biology**Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This course is designed for the student who has an interest in the intricacies of ecosystems. Some of the topics covered in this course are behavioral ecology, human ecology, lake ecology, and population ecology. Discussions will scope from local to global ecological issues. Students will also be given an opportunity to use sampling methods designed to estimate population sizes of wildlife including all types of game species.

**#1350 ANATOMY-PHYSIOLOGY I (Not offered in 2022-2023)****Requirement(s) needed:** Physical Science and Biology**Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This course is designed for students planning on a career in the medical field or those who are interested in how their own body works. This semester will focus on the following four areas: integumentary system, skeletal system, brain and nervous system and the special senses of the human body. All students will engage in the dissection of bones and eyeballs in order to gain a more thorough understanding of the material.

This does not need to be taken before Anatomy II or III.

**#1351 ANATOMY-PHYSIOLOGY II (Not offered in 2022-2023)****Requirement(s) needed:** Physical Science and Biology**Duration:** 1 semester**Credit:** ½ credit**Open to:** 11-12

**Description:** This course is designed for students planning on a career in the medical field or those who are interested in how their own body works. This semester will focus on the following systems: reproductive system, respiratory system, and the digestive system. Students will be required to dissect a cat during the second half of the semester.

Anatomy/Physiology I is not a prerequisite for this course.

### **#1352 ANATOMY-PHYSIOLOGY III**

**Requirement(s) needed:** Physical Science and Biology

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** This course is designed for students planning on a career in the medical field or those who are interested in how their own body works. This semester will focus on the following systems: muscular, cardiovascular and excretory. Students will also dissect a heart and engage in labs using computer software.

**Anatomy/Physiology I and II are not prerequisites for this course.**

### **#1354 BRAIN ANATOMY/ PHYSIOLOGY**

**Requirement(s) needed:** Physical Science and Biology

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** The brain is home to your personality, your memories, your hopes and desires and yet -- how much do you really know about it? This class will take you through the process of brain development, discuss the unique functions of the brain, consider brain illnesses like Parkinson's and schizophrenia, look at differences between male and female brains, examine the effects of drug use and investigate case studies.



### **#1307 CITS HEALTH SCIENCE TERMINOLOGY: *UMD HLTH 1104 HEALTH SCIENCE TERMINOLOGY***

**Requirement(s) needed:** Physical Science and Biology and for UMD credit, students must have a 3.0 cumulative GPA

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**UMD Credit:** 3 semester credits

**Open to:** 11-12

**Description:** This course is required in most medical fields. It has the following 3 focuses: Latin word parts and their application to the medical field, basic anatomy overview of the ten body systems, and understanding of medical conditions and procedures performed in the medical field. It is a great way to combine the study of human anatomy and physiology with the medical world.

# ART

**1.0 credits of Art are required to graduate from Grand Rapids High School**



## Sequence of course offerings:

Course(s)	Gateway Course (Recommended in 9th/10th grade)		Upper Level/Capstone Course (Recommended in 11th/12th grade)
Painting	Painting 1 #1764		Painting 2 #1766
Drawing	Drawing 1 #1758		Drawing 2 #1759
IB Studio Art	Painting 1 #1764	Painting 2 #1766	IB Studio Art I #1768 & #2768
	Drawing 1 #1758	Drawing 2 #1759	

Courses that require no prerequisite:	Open to (Grades):
#1750 Foundation in Art	9, 10, 11, 12
#1756 Clay 1	10, 11, 12
#1770 Printmaking	10, 11, 12

### **#1750 FOUNDATIONS in ART**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Explore the Principles of Design while increasing your knowledge of the Elements of Art. Create both two and three dimensional art, while discovering your artistic self! This course is a great starting point for you to decide what media you would like to explore in the future and also gain more knowledge of art and how to use specific media.

**Media explored in this course:** colored pencil, collage, scratch art, watercolor, clay, marker, and more.

### **#1758 DRAWING 1**

**Prerequisite for:** Drawing 2, IB Studio Art

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This course will emphasize drawing strategies and techniques which encourage working in a naturalistic manner. Line, shape, form, value and scale will be utilized for full development of the picture plane. We will work through major subjects including: still life, portraiture/figure drawing, landscape, and interiors.

**Media explored in this course:** Pencils, chalk pastels, oil pastels, charcoals, conte, colored pencils, ink marker, India ink, various paper.

### **#1759 DRAWING 2**

**Requirement needed:** Drawing 1

**Prerequisite for:** IB Studio Art

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed to build upon 2D art experiences. Emphasis will be placed on the development of original imagery. This course will expose young artists to the rigors of studio production based on a combination of teacher designed projects and student driven ideas. Students will be required to keep a sketchbook of ideas, concepts, strategies and research.

**Media explored in this course:** Pencils, chalk pastels, oil pastels, charcoals, conte, colored pencils, ink marker, India ink, various paper, and drawing surfaces.

### **#1764 PAINTING 1**

**Prerequisite for:** Painting 2, IB Studio Art

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Painting 1 is a class designed to introduce the fundamentals of painting. This course will emphasize color, composition and respect for the mediums and craftsmanship. We will explore color theory along with the various painting styles throughout history.

**Media explored in this course:** Tempera and Acrylic paint.

### **#1766 PAINTING 2**

**Requirement needed:** Painting 1

**Prerequisite for:** IB Studio Art

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed to build upon previous painting experiences. Emphasis will be placed on the development of original imagery. This course will expose young artists to the rigors of studio production based on a combination of teacher designed projects and student driven ideas. Students will be required to keep a sketchbook of ideas, concepts, strategies and research.

**Media explored in this course:** Acrylic and oil paint.

### **#1756 CLAY 1**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This class provides an opportunity to create three dimensional art using clay. Students are introduced to both hand-building and throwing on the potter's wheel. Craftsmanship, design, and idea development are stressed.

### **#1770 PRINTMAKING**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course will focus on relief printmaking with wood blocks and lino-cuts. The students will advance to multicolor reduction lino-cuts of 3 or more hues. Other processes may also be explored such as monoprints, etching, and collagraphs. Safety, craftsmanship and originality will be emphasized.

**Media explored in this course:** Various types of ink.



## #1768 & #2768 IB STUDIO ART I

**Requirement needed:** Drawing 2 or Painting 2

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** IB Studio Art is a course emphasizing original studio production (drawing, painting, prints, ceramics, etc.) coupled with unique personal insights, investigations, and research. This is an opportunity for highly motivated artists and thinkers to develop ideas and personal vision while creating visual works of art and engaging in open-ended creative research. Students test as an SL level IB course. **Media explored in this course:** Free choice. This course receives weighted grading for IB enrolled students.





# MUSIC

## ALL MUSIC COURSES MEET THE ARTS ELECTIVE CREDIT REQUIREMENT

**Students must be a member of choir or a band for a FULL YEAR to receive credit.**

## BAND

**Special Note:** No matter what band you participate in, all students are given the opportunity & are encouraged to participate in Jazz Bands, Solo & Ensemble contests, and All-State Band auditions. In addition, students will be asked to participate in Winter Pep Band events as they are a part of the band curriculum.

*All students, grades 9-12, using school equipment will be assessed an instrument use fee of \$100.00.*

### #1776 MARCHING BAND

**Requirement(s) needed:** Participation in 8th Grade Band or permission from instructor to start in the program.

**Duration:** Students must be a member of a band for a Full Year (first and second semester) to receive credit. **Credit:** 1 credit

**Open To:** 9-10-11-12

This course is for anyone participating in the Marching Band. For course details, please see an instructor. This course does include outside of the school day rehearsals and performances.

### #1796 COLOR GUARD

**Requirement(s) needed:** Participation in 8th Grade Band or permission from instructor to start in the program.

**Duration:** 1 quarter

**Credit:** ¼ credit

**Open to:** 9-10-11-12

**Description:** This course is for Color Guard students who do not play a band instrument. These students will participate in the marching band program until the end of first quarter. At that time they will be transferred to a study hall. Must be in Color Guard for 2 consecutive years to receive 1/2 credit.

### **#1779 VARSITY/NON-MARCHING BAND**

**Requirement(s) needed:** Participation in 8th Grade Band or permission from instructor to start in the program.

**Duration:** Students must be a member of a band for a Full Year (first and second semester) to receive credit. **Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** The band will consist of instrumental music students in grades 9-12 who do not participate in the fall Marching Band season. Students will perform 2-3 concerts per year. This group focuses on a high caliber of music from many different time periods and styles. Normal concert and pep band requirements do apply to this course.

### **#1797 & #2797 ENSEMBLE**

**Requirement(s) needed:** Must be a member of Band or Choir

**Duration:** 1 or 2 semesters

**Credit:** ½ credit per semester

**Open to:** 9-10-11-12

**Description:** This course will focus on music theory, musical performance and musical composition. Students will be required to analyze, perform and compose in various settings, music genres and must be a member of another performing ensemble at GRHS such as Band or Choir.

### **#1794 CLASSICAL GUITAR**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Class Guitar is a performance class, focusing on the learning and playing of beginning note reading, chord reading and musical theory. You will learn as individuals as well as be assigned ensembles to perform with. We will focus on a variety of musical styles from classical to rock and roll. Students are expected to be in class on time and ready to play the guitars daily. Students will use school owned guitars during the semester in the classroom. These guitars will not be able to go home with you so I encourage you to have a guitar outside of the school to practice at home. ***1-2 concerts in the semester will be a required component of the class.***

**#2779 9<sup>th</sup> GRADE BAND**

**Requirement(s) needed:** Participation in 8th Grade Band or permission from instructor to start in the program.

**Duration:** Students must be a member of a band for a Full Year (first and second semester) to receive credit. **Credit:** ½ credit

**Open To:** 9

**Description:** The band will consist of instrumental music students in 9th Grade and will perform 2-3 concerts per year. This group focuses on a high caliber of music from many different time periods and styles.

**#2783 CONCERT BAND**

**Requirement(s) needed:** Selection to this group is determined by an audition as well as the director's and band's needs.

**Duration:** Students must be a member of a band for a Full Year to receive credit.

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** The Concert Band is a select group of musicians with a very high demand of musicality and technical skill placed on the members. The Concert Band performs at State/Region Large Group contest and at least 2 concerts per year.

**#2784 SYMPHONY BAND**

**Requirement(s) needed:** Selection to this group is determined by an audition as well as the director's and band's needs.

**Duration:** Students must be a member of a band for a Full Year (first and second semester) to receive credit.

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** The Symphony Band is a select group of musicians with a very high demand of musicality and technical skill placed on the members. The Symphony Band performs at State/ Region Large Group contests and at least one concert this semester.

**#1784 & #2786 JAZZ ENSEMBLE ONE**

**Requirement(s) needed:** Must be a member of Symphonic Band or Concert Band.

**Duration:** Students must be a member of a band for a Full Year (first and second semester) to receive credit. **Credit:** 1 credit

**Open To:** 10-11-12

**Description:** Jazz Band Lab meets as a class every day. The music performed will be highly creative in nature and demands technical skill. The students will also spend time studying music theory, jazz history and work on skills related to Jazz Performance.

# CHOIR

## **#1798 & #2798 TREBLE CHOIR**

**Requirement(s) needed:** Open to all treble singers

**Duration:** Students must be a member of a choir for a Full Year (first and second semester) to receive credit

**Credit:** 1 credit

**Open to:** 9 & all treble singers

**Description:** Treble Choir is a performing ensemble for any ninth grade treble voice (soprano/alto) interested in singing. Rehearsals occur daily and focus on the fundamentals of singing, and achieving full control of the voice. Many different types of music are explored from popular to classical choral literature. The group performs at least four concerts per year.

## **#1777 & #2777 TENOR-BASS CHOIR**

**Requirement(s) needed:** Open to all tenor-bass singers

**Duration:** Students must be a member of a choir for a Full Year (first and second semester) to receive credit.

**Credit:** 1 credit

**Open to:** 9 & all tenor-bass singers

**Description:** Tenor Choir is a performing ensemble for any ninth grade tenor-bass interested in singing. Rehearsals occur daily and focus on the fundamentals of singing, and achieving full control of the voice. Many different types of music are explored from popular to classical choral literature. The group performs at least four concerts per year.

## **#1790 & #2792 CONCERT CHOIR**

**Requirement(s):** Acceptance by audition

**Duration:** Students must be a member of choir for a Full Year (first and second semester) to receive credit.

**Credit:** 1 credit

**Open to:** 10-11-12

**Description:** The Concert Choir course focuses on expanding the skills of the singer/musician. Fundamentals of singing are expected to be in place by now, and singers will be pushed towards vocal flexibility and expressive singing. The group performs at least three times a year. Members are encouraged to participate in the Solo and Ensemble contest, and audition for all-state choir.

### **#1786 & #2788 A CAPPELLA CHOIR**

**Requirement(s) needed:** Acceptance by audition

**Duration:** Students must be a member of choir for a Full Year (first and second semester) to receive credit

**Credit:** 1 credit

**Open to:** 10-11-12

**Description:** A Cappella Choir members are chosen according to vocal ability and voicing needs by audition. This is a select group that performs difficult choral literature, mostly A- Cappella. The choir performs at least three main concerts a year, tours annually, and fulfills community obligations and special events.

### **#1788 & #2790 JAZZ CHOIR**

**Requirement(s) needed:** Member of A Cappella Choir by audition

**Duration:** Students must be a member of choir for a Full Year (first and second semester) to receive credit

**Credit:** 1 credit

**Open to:** 11-12

**Description:** Jazz Choir is a select group of singers from Concert Choir and A Cappella Choir. This choir performs vocal jazz literature and madrigals. At least four main concerts a year are given, and many community appearances are performed.



# FITNESS and WELLNESS

One credit of Fitness is **required** for graduation  
1/2 credit of Wellness (Health) is **required** for graduation.

## **#1804 WELLNESS for LIFE (Health) - Graduation Requirement**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** A study of contemporary issues affecting one's wellness. Wellness is a course of knowledge, practice and skill. In the six priority areas of wellness you will gain and demonstrate knowledge and understanding of information. An in-depth study of an approved wellness topic is required. **This is a required course for graduation.**

## **#1805 EARLY BIRD WELLNESS for LIFE (Health) (Not offered in 2022-2023)**

**Duration:** 1 semester (7:00 a.m.-7:50 a.m.)

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** A study of contemporary issues affecting one's wellness. Wellness is a course of knowledge, practice and skill. In the six priority areas of wellness you will gain and demonstrate knowledge and understanding of information. An in-depth study of an approved wellness topic is required.

## **#1800 TEAM SPORTS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** The curriculum focuses on cooperation and participation through physical activity. Each student will enhance their skill level as well as their understanding of sportsmanship, fair play and the need to work with others of varying abilities. These components are essential to earning your credit. Appropriate workout attire, including tennis shoes, is mandatory. Activities may include, but are not limited to: basketball, bowling, floor hockey, football, soccer, softball, speed-ball and volleyball.



### **#1801 INTENSE TEAM SPORTS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Looking for some competition? Here is your chance. If you enjoy rigorous (but safe) games of basketball, floor hockey, ultimate Frisbee, and touch football, this is the right place for you. You will enhance your physical fitness level as well as your knowledge of the activities. This class is centered on sportsmanship and fair play while working as a team. Wanting to stay active and play hard is a requirement for those of you thinking of joining this class. Are you ready for this?

### **#1813 PICKLEBALL/RACQUET SPORTS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Pickleball anyone? This is it; your opportunity to learn more about and play all the pickleball you wanted to in our other classes, but did not have the time for. Here you will learn about other activities that use a racquet to play, such as badminton, but most of your time will be spent playing pickleball! Are your skills ready to match those of our talented fitness department members? If you are just learning or are a self-proclaimed professional, we will make you better in all areas of the game.

### **#1819 DODGEBALL**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Remember all the games of dodgeball you have played in the past? Well here is your opportunity to play a variety of dodgeball games for one semester. We will be using a safe gator skin ball to ensure safety while we play. Dodgeball offers the benefits of cardiovascular activity, hand-eye coordination, balance and agility to name a few. All ability levels are welcome. Team-work, cooperation, fair play, and sportsmanship are a necessity.

### **#1835 BACKYARD VOLLEYBALL**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Do you want to play Volleyball? If your answer is yes then this is where you will want to earn part of your physical education credit. A variety of volleyball games, including games of 3 on 3, will be played along with lots of regulation volleyball. If you have a positive attitude and want to spend a semester bumping, setting, and spiking your way to fitness, we will see your name on the backyard volleyball roster for next fall or spring.

### **#1807 FITNESS FOR LIFE 1**

**Prerequisite for:** Fitness for Life 2

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** If you like going to a fitness center or weight room, this is the class for you. You will gain knowledge in fitness, safety, techniques of training, and the benefits of lifetime fitness and athletic performance. You will quickly design your own daily workouts and choose between weight training, cardio training (exercise bikes and treadmills). Stretching and exercises, aerobics, suspension training, resistance training, sport specific skill training like stickhandling (hockey), dribbling (basketball), and much more. We explore various new trends in fitness to keep you up to date. If you are an athlete here at GRHS, this is the perfect class to do your team workouts, whether set by your coach, our GRHS strength and conditioning coach, or a program designed by you and I.

### **#1808 FITNESS FOR LIFE 2**

**Requirement(s) needed:** Fitness for Life 1, Body Shaping 1 or Early Bird Fitness 1

**Prerequisite for:** Fitness for Life 3

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This course is designed for the serious student who would like to take his or her fitness to a higher level. Students will work toward a higher level of fitness and will design and implement a health enhancing fitness plan for themselves.

### **#1811 FITNESS FOR LIFE 3**

**Requirement(s) needed:** Completion of Fitness for Life 1 & 2, Body Shaping 1 & 2 or Early Bird Fitness 1 & 2. (*Seniors do not need a prerequisite*)

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed for the serious fitness fanatic who wishes to take their personnel conditioning to the highest level. Cardiovascular and strength training techniques will be implemented into your daily routines. Student oriented programs will drive each individual towards achieving their personal bests in all areas of fitness.

### **#1817 BODY SHAPING 1**

**Prerequisite for:** Body Shaping 2, Fitness for Life 3

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed to teach the components of total physical fitness so that you can design your own workout. You will enhance your knowledge of fitness, safety, techniques of training, and the applications of the benefits of fitness in improving lifetime activity and athletic performance. We will explore various training programs and new fitness trends, and incorporate these into your own daily workout plan. If you're an athlete, you can start or continue a strength or conditioning program implemented by one of our GRHS sport coaches. Students can choose between weight training, cardio training (exercise bikes and treadmills), stretching and exercises, aerobics, suspension training, and more.

### **#1820 BODY SHAPING 2**

**Requirement(s) needed:** Body Shaping 1, Fitness for Life 1 or Early Bird Fitness 1

**Prerequisite for:** Fitness for Life 3

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** If you did not get buff enough in Body Shaping 1, and still want more, this is the class for you. Body Shaping 2 will take you to the next level in weight training. You will continue to strengthen and tone your muscles as you learned in Body Shaping 1. The basics you have learned in the first class, will be essential as you design your own self-made workout. You have started to make a change within your body, now let's keep moving forward and push yourself to be the best you can be.

### **#1803 EARLY BIRD FITNESS 1**

**Prerequisite for:** Fitness for Life 2, Early Bird Fitness 2, Fitness for Life 3

**Duration:** 1 semester (7:00 a.m.-7:50 a.m.)

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** If you like going to a fitness center or weight room, this is the class for you. You will gain knowledge in fitness, safety, techniques of training, and the benefits of lifetime fitness and athletic performance. You will quickly design your own daily workouts and choose between weight training, cardio training (exercise bikes and treadmills). Stretching and exercises, aerobics, suspension training, resistance training, sport specific skill training like stickhandling (hockey), dribbling (basketball), and much more. We explore various new trends in fitness to keep you up to date. If you are an athlete here at GRHS, this is the perfect class to do your team workouts, whether set by your coach, our GRHS strength and conditioning coach, or a program designed by you and I.

### **#1806 EARLY BIRD FITNESS 2**

**Requirement(s) needed:** Fitness for Life 1, Body Shaping 1 or Early Bird Fitness 1

**Prerequisite for:** Fitness for Life 3

**Duration:** 1 semester (7:00-7:50 a.m.)

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed for the serious student who would like to take his or her fitness to a higher level. Students will work toward a higher level of fitness and will design and implement their own fitness plans. Athletes can also continue to follow their workout plans scheduled by a GRHS sport coach.

### **#1815 SELF DEFENSE *(Not offered in 2022-2023)***

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This class will provide students with assault awareness information which includes preventative and precautionary measures and use of self-defense skills and techniques. Throughout the class students will learn various self-defense techniques such as sweeps, arm-locks, kicks and strikes.

**#1834 OFFICIATING BASKETBALL** *(Not offered in 2022-2023)*

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This class will be focused on teaching the students how to officiate basketball games as well as volleyball, softball, and/or baseball. Successful completion of the class will provide students with opportunities (\$ Paid \$) to referee youth activities within the community. Positioning, hand signals, and rules will be stressed in this class. Students will not only get hands-on practice officiating games but will also get multiple opportunities to play games.

**#1836 SENIOR P.E.** *(Not offered in 2022-2023)*

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 12

**Description:** This Phy. Ed. (PE) class is for seniors only, especially if you have not had the opportunity to take a PE class. This class will be based out of the gym and will include many team and individual sports. Activities may include basketball, pickleball, volleyball, badminton, fitness walking and kickball. We will also have the ability to try other activities as desired by the class.

# BUSINESS, TECHNOLOGY & MARKETING

## **#1508 MONEY MATTERS - *Graduation Requirement***

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** Being able to effectively manage our money is important to all of us. This class will help you with budgeting, banking basics, managing a checkbook, filing your income taxes, getting and keeping good credit, learning about car insurance and car loans, financing a college education, and creating wealth through investing. **This is a required course for graduation.**

## **#1515 Exploring the World of Business**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11

**Description:** In this course you will learn the basics of the business world and there will be exciting field trips to businesses in the Northland. Students will obtain knowledge about being an informed consumer, understanding the work world, and will be taught about 21st Century ethics and social responsibilities. This exploratory class is the introductory course for our business pathway.

## **#1501 KEYBOARDING & BUSINESS COMMUNICATIONS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This is an entry course to the Business, Technology, and Marketing Career Pathways and is designed for new and experienced learners. The digital presence and impact of communication in our technology-filled world will be addressed, including keyboarding, Microsoft Office, social media, LinkedIn, and more. Goal-setting strategies, computer efficacy, communication skills, and teamwork will be stressed to prepare students to be college and career ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry.



### **#1552 WEBSITE DESIGN I**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Learn how to code using HTML! HTML is the coding language for creating web documents. In this class you'll learn the basics of HTML that will lead you right into being able to use Adobe Dreamweaver. You'll have fun learning how to add color, graphics, hyperlinks, backgrounds, spry bars, and much more to make your web sites really stand out. *Students can use this as a ½ credit towards the ARTS credit requirement.*

### **#2558 WEB SITE DESIGN II** *(Not offered in 2022-2023)*

**Prerequisites:** Web Site Design I

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** HTML coding just got more interesting. You'll learn more advanced features of HTML including how to put in style sheets. You'll become a web designer for "Web Hot Shots" and create amazing websites using your imagination and your web skills. *Students can use this as a 1/2 credit towards the ARTS credit requirement.*

### **#1554 MULTIMEDIA APPLICATIONS**

**Prerequisite for:** Advanced Multimedia Applications

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class is a project-based class that is fun and hands-on. Students will learn and expand their knowledge of various multimedia mediums and will create and manage different digital media. Flash, Photoshop, Audacity, iMovie, Garage Band, and more will be used to create projects such as Podcasts, Vlogs, Movie Trailers, Public Service Announcements, Animation, Manipulated Photos, and much more.

*Students can use this as a 1/2 credit towards the ARTS requirement.*

### **#1555 ADVANCED MULTIMEDIA APPLICATIONS** *(Not offered in 2022-2023)*

**Requirement(s) needed:** Multimedia Applications

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Did you like making graphics, animations and movies in Multimedia Mania? Then further expand your computer skills with Advanced Multimedia. Students will create stop animations, learn advanced Photoshop techniques along with creating special effect videos. Explore numerous web apps in the area of digital media production. *Students can use this as a ½ credit toward the ARTS credit requirement.*

### **#1570 PERSONAL LAW**

**Prerequisites:** None

**Duration:** 1 semester

**Credit:** 1/2 credit

**Open to:** 9-10-11-12

**Description:** Are you interested in learning about our laws and legal system? Perhaps you are interested in a law-related career such as becoming an attorney or going into law enforcement. In this class, you will learn about relevant issues about criminal law, civil law, contract and family law. Students will also learn about court and trial procedures while conducting a *mock trial*. Local attorneys and law enforcement speakers enhance and deepen learning and a field trip to Itasca and St. Louis County Courthouses are taken to help deepen the knowledge of our court systems.

### **#1629 GRAPHIC DESIGN USING ADOBE INDESIGN®**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description for Graphic Design Using Adobe InDesign:** Learn the exciting world of graphic design while learning how to use one of the most used graphic designing software - Adobe InDesign. Through the projects you will complete; you will learn the parts of common design layouts and patterns, the relationship of the parts of a design, and how to create designs that are eye-catching. The world of marketing and business is promoted through this work. We will be collaborating with a local - nationally known marketing firm in town to give you professional-grade insights and ideas. *Students can use this as a 1/2 credit towards the ARTS requirement.*

### **#1824 PC TECHNOLOGY** *(Not offered in 2022-2023)*

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Have you ever wondered about how computers work or like fixing them? In PC Technology you will explore the world of IT and learn about hardware and software. Through hands-on activities and virtual labs, you will learn how to assemble a computer, install operating systems and troubleshoot problems. You will also have an introduction to security and networking basics.

### **#1502 MARKETING**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** Introduce yourself to the exciting world of marketing! You will learn how products are brought from the idea stage to becoming available on store shelves. Everything from distribution to sales will be explored. Create new products and learn how to market them efficiently. This hands-on course will provide the basis for a career in Marketing. Students will also have an opportunity to create hands-on advertising and promotional materials for a business. Marketing skills give people in every occupation an advantage in the workplace.

### **#1505 SPORTS & ENTERTAINMENT MARKETING**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course helps students develop an extensive understanding of marketing concepts and theories that apply to sports, entertainment, and business. In this exciting hands-on course you will take field trips and learn about:

- Foundations of Sports & Entertainment Marketing
- Knowing Your Customers
- Setting Ticket Prices
- Promotional Incentives
- Social Media
- Career Possibilities

### **#1506 PYTHON CODING AND APP**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** Technology at its core is meant to help people and make lives better. The world will continue to evolve around knowledge of computers, coding, app development, and computer science. In this hands-on and collaborative project-based introductory course you will get a solid foundation in app development, coding, and computer science. Students will be coding a series of small apps. *Students can use this as a 1/2 credit towards the ARTS requirement.*

### **#1538 ACCOUNTING I**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** Does your future include a degree in business, marketing, management, finance or even cosmetology? No matter what field you choose, an accounting course will likely be required. Why not learn the basics of accounting to help prepare you for a future accounting class? Accounting has many benefits, regardless of your career choice and the study of accounting is interesting and fun, yet thought-provoking.

### **#2575 ACCOUNTING II**

**Prerequisites:** Accounting I

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** A continuation of Accounting I. Give yourself the edge in future accounting courses by completing a second semester of high school accounting. It is a well-known fact that the first few weeks of college accounting equals one full year of high school accounting. Use of simulations will bring it all together with a hands on application to the accounting cycle.

### **#1503 HOSPITALITY AND TOURISM** *(Not offered in 2022-2023)*

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 11-12

**Description:** Did you know that hospitality and tourism is one of the top employers in Minnesota? Today's hospitality and tourism industry is looking for people who enjoy variety, challenge, and, above all, PEOPLE! Is this you? Hospitality and tourism encompass a wide variety of jobs in restaurants, hotels, motels, inns, resorts, and campgrounds. This course covers information about potential careers and the management skills necessary to successfully work in the hospitality and tourism industry. Plus, statistics show that those who start their first job in the hospitality industry, earn more money later in life!

## #1565 & #2565 IB BUSINESS AND MANAGEMENT

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** This course is a rigorous and critical study of the ways in which individuals and groups interact in a dynamic business environment. Students will examine how business decisions are made and how these decisions make an impact on internal and external environments. Emphasis is placed on understanding technical innovation and day-to-day business functions of marketing, human resource management and finance. Application and techniques of analysis will be used to enhance the understanding of complex business activities. Ethical concerns and issues of social responsibility in the business environment will be covered. It is not required, but taking accounting is highly recommended. **This course receives weighted grading.**

Note the new outline of pathways toward careers in Business, Business Management/Entrepreneurship, Business Technology, Graphic Design, and Marketing on page 13.



# CAREER PATHWAY and OTHER ELECTIVES

## **#1890 & #2891 AVID**

**Duration:** All Year

**Credit:** ½ credit per semester

**Open to:** 9

**Description:** AVID helps students build study skills they will need to become successful high school students who are college/career ready upon graduation. For one period a day, students will learn and practice: organization & time management strategies, presentation & public speaking skills, and reading & comprehension. Writing, inquiry, and collaboration are also core strategies used in this class. All students can benefit from AVID, but opportunities to enroll are limited.

## **#TP1313GR Healthcare Careers Exploration**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10

**Description for Healthcare Careers Exploration:** There are many careers that fall under the category of “Health Sciences” – Nurse, Dental Assistant, Chiropractor, Radiologist, Physical Therapist, Pharmacy Technician, Home Health Aide, Physician, X-ray Technician, Emergency Medical Services (EMS), Athletic Trainer, Dietetic Technician, Mortuary Sciences, Speech/Language Pathologist, and Veterinary Technician just to name a few. This course will increase your awareness of the wide variety of health science occupations, the required skills, and the necessary preparation to help guide you in determining your pathway. Page 12 of this guide has more information on pathway options.

**#1370 CIS Intro to Healthcare Concepts**

**Requirement(s) needed:** None *but* for ICC credit juniors must have a 3.0 cumulative GPA and seniors must have a 2.5 cumulative GPA

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**ICC Credit:** 4 semester credits

**Open to:** 11-12

**Description:** This course is focused on preparing students pursuing health care careers and provides skills needed to be successful in healthcare careers, support for making informed career and educational choices, and pathways to multiple health careers.

The 6 modules (units) are: 1) Behaviors for Success in Health Care Settings, 2) Awareness & Sensitivity to Client's Needs, 3) Communication in Healthcare, 4) Healthcare Ethics, 5) Legal Issues in Healthcare, and 6) Capstone Portfolio. The course is presented through a blended platform of online and labs at the ICC nursing lab as well as 1 field trip to BigFork Valley hospital. Students opting out of labs are not penalized.

**#1515 EXPLORING THE WORLD OF BUSINESS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11

**Description:** This course is learning the basics of the business world and will include exciting field trips to businesses in the Northland. Students will obtain knowledge about being an informed consumer, understanding the work world, and will be taught about 21st Century ethics and social responsibilities. This exploratory class is the introductory course for our business pathway.

**#1682 PERSONAL LEADERSHIP DEVELOPMENT SKILLS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Do you belong to an athletic team, club, or organization inside or outside the school? This class is designed to make you a more effective leader within an organization. In this class you will understand your role as a member, officer, or captain. You will learn about the organizational problem-solving cycle used in nominal decision making that can be applied to your organization. You will learn how to create professional agendas, minutes, and committee reports as well as the use of parliamentary procedure to help meetings run more efficiently. You will also gain practice in presenting as a group and or as an individual using various technologies and multimedia, thus furthering your speaking skills. You will also work on developing a skills portfolio which will include your resume and of course mastering your job interview and interpersonal communication with your teammates and the community you serve.

### **#1853 & #2853 GRHS MEDIA PRODUCTION**

**Duration:** 1 year, but may be taken per semester

**Credit:** ½ credit per semester

**Open to:** 10-11-12

**Description:** Students in GRHS Media Production will take part in weekly installments of the GRHS announcement videos known as Hawk Talk. Students will contribute to a professional environment dedicated to high quality video productions that share pertinent announcements and celebrate life at GRHS. Students will acquire skills in public speaking and media presence, writing for production, conducting interviews, video editing, and coordinating with a team.

### **#1846 & #2848 JOURNALISM**

**Requirement(s) needed:** *See instructor for an application.*

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Journalism Description:** Students develop journalistic skills through working on the GRHS yearbook. All students are required to enter the local business community for advertising sales related to the yearbook. This class is a great opportunity to develop skills in design, writing, communication, photography, and investigative reporting. Students should be self-motivated. ***NOT ENGLISH CREDIT***

### **#1845 CIS Intro to Teaching**

**Requirement(s) needed:** None but 3.0 GPA for Juniors and 2.75 GPA for Seniors IF wanting college credit

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**ICC Credit:** 2 semester credits

**Open to:** 11-12

**Description:** This course introduces students to the teaching profession through the exploration of topics including lesson planning, professionalism, cultural competency, classroom environment, curriculum standards, and others. The course is appropriate for any student interested in exploring professions working with children and young adults including teaching, counseling, and social work. The course includes a field experience in a local classroom.





## **#1848 & #2850 IB THEORY OF KNOWLEDGE (TOK) I & II**

**Prerequisites:** Grade point average of 3.25. Class size limited to 25. If more than 25 pre-register, selection will be based on the number of IB classes for which students are registered. (If a student drops an IB class during the year, they may be asked to drop TOK.)

**Duration:** 1 semester for each course

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** TOK challenges students to reexamine what they have learned to date, to become more aware of both themselves as thinkers and the amazing complexity of knowledge. The course is centered on the question, “How do we know what we know?” Class time will largely be devoted to examining questions and engaging in discussions based on reading and video as well as the students’ own knowledge and experiences. Students will work on synthesizing their thoughts orally and in writing. The focus of the discussion will not be the differentiation between “right” and “wrong” ideas, but on the quality of justification and a balanced approach to the knowledge claim in question. In other words, we will focus on how you know, rather than on what you know. **IB Diploma candidates need to take TOK I their junior year and TOK II their senior year. This course receives weighted grading for IB enrolled students.**



## **#1849 & #2849 IB FILM STUDIES**

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description for IB Film Studies:** IB Film is a year-long elective in the International Baccalaureate program at GRHS. The class is open to all interested juniors and seniors. Students may take the class for one year for Standard Level IB credit or take the class for two years for Higher Level IB credit. Class time is divided between students interacting with various films of historical and technical importance and students working on creating their own films for IB assessment. Official IB assessments include presenting on technical elements from a short film clip, writing a script, and creating a short film with accompanying reflection/commentary. **This course receives weighted grading.**

### **#5555 Foundations in Ojibwe Culture**

**Requirement(s) needed:** Interview and permission of Advocate required

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**Open to:** 11-12

**Description:** Students will be able to choose learning goals related to American Indian cultural experiences and activities. Students will be required to work with the Anishinaabe program advocate to set a learning goal and produce evidence of course goal completion. Examples of project opportunities include arts and crafts, historical research, action research, and culturally relevant experiential learning opportunities with an emphasis on cross-generational teaching and learning. Students will track their progress and provide artifacts related to their learning goal. Interested students will interview with a program advisor prior to signing up. This course has limited enrollment.

### **#1814 & #2814 CAREER INTERNSHIP**

**Semester 1:** #1814

**Semester 2:** #2814

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 12

**Description:** The Career Internship program is a job shadowing experience in which high school seniors have the opportunity to learn more about careers that interest them as well as what it means to be an active, contributing citizen in our community. Students are encouraged to find an internship site that corresponds with their career interests. Students can register for a Career Internship twice in a semester if they would like more time at their site (the hours would have to be back-to-back for a block class) and they would then receive 1 full elective credit. Or, students can register for a full year with one hour of internship each semester. If a student is leaving campus, the internship must be at the beginning or end of their day unless it's a two hour block. **This course is graded 'Pass/No Pass'.**

**#1822 & #2822 SENIOR SEMINAR OR  
#1825 & #2825 for SENIOR SEMINAR BLOCK**

**Semester 1:** #1825 2 Hour Block (1<sup>st</sup>-2<sup>nd</sup> or 6<sup>th</sup>-7<sup>th</sup>) OR #1822 Hour 1 or 7

**Semester 2:** #2825 2 Hour Block (1<sup>st</sup>-2<sup>nd</sup> or 6<sup>th</sup>-7<sup>th</sup>) OR #2822 Hour 1 or 7

**Requirement(s) needed:** On track for graduation

**Duration:** 1 semester

**Credit:** No credit

**Open to:** 12

**Description:** Senior students that are on track for graduation can choose to use an hour or two of their day to work independently on homework completion and career and college readiness as verified by meeting with their counselor. During Senior Seminar students also have the opportunity to use the library or the commons, meet with teachers or counselors, or pursue tutoring. **A Pass/No Pass will be given** to the student at the end of the semester based upon the completion of senior year Career Pathways planning specific to the semester in which this course is taken.

# AGRICULTURE, FOOD & NATURAL RESOURCES

*FFA membership is available to students by taking any of the courses listed below.*

**NOTE:** *All Agriculture and Natural Resource courses taught by Mr. Linder are eligible for college credit at Vermillion Community College if a student earns a "B" or better.*

## **#1681 FISHERIES and AQUATIC SYSTEMS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class examines the biology, management and fishing of our Minnesota fish. They also examine our lakes and streams and how to keep them healthy and produce fish. We also cover waterfowl species such as geese and ducks found in MN.

## **#1648 FORESTRY**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class introduces students to the identification, management, inventory, and utilization of trees in Minnesota. Students will spend a great deal of time outside identifying over thirty tree species. You will create a hundred year plan for the woodlot of your choice.

## **#1634 GIS MAPPING & DRONE TECHNOLOGY**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class is a computer based class that uses aerial maps and global positioning systems to track fish and wildlife populations and movement. This technology will help analyze hunting land, ponds, and fishing lakes. This class carries ICC credit possibilities. An advanced class is available for those who have already taken GIS.

### **#1607 ADVANCED GIS**

*\* See Mr. Linder if interested*

This course is an extension of the GIS course for students interested in expanding their experience. **This is an opportunity to enhance your GIS skills in an advanced class.**

**Potential to earn college credit at ICC.**

***Advanced GIS MAY be available upon request.***

*ICC will give credit for the Collegiate Introduction Geographic Information Systems with a "B" or better and/or a test out option is available.*

### **#1647 GREENHOUSE/ LANDSCAPING**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** In this class you will produce house plants, and vegetables to be used in a plant sale that is put on by the class. This class will also draw up a landscape design, install or maintain landscapes, and floral arrangements. **This class fulfills a ½ credit of an art required.**

### **#1628 HORSE (EQUINE) MANAGEMENT**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This course is designed for students who own or have an interest in equine and veterinary careers. Students will examine biology, economics, and social implications of horse industry. Horse ownership and husbandry will be examined. Students will get hands-on training in horse judging and hippology studies and will ultimately competitively test their skills near the end of the fall semester at Agricultural Activities Day at the University of Minnesota, Crookston, where they will also examine one of the better equine programs in the Upper Midwest. Students in this course will examine topics in identification, genetics, reproduction, nutrition, budgeting, housing, diseases, training, and horseshoeing. Students in this class are eligible for FFA membership.

### **#1678 LARGE WILDLIFE MANAGEMENT** *(not offered in 2023-2024)*

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class examines the biology, management and hunting of Deer, Elk, Moose, Bear, and Wolves. This class also examines proper hunting ethics, food plot development, scouting, aging, and scoring of trophy deer. Plan your own North America hunt.

### **#1617 MINNESOTA FOODS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This will be a new lab based class focused on the processing, preserving, storing, and preparing of common foods in Minnesota - both cultivated and wild foods. Some of the foods of focus will include, but are not limited to: fruits, vegetables, dairy products, meats, and of course wild edibles and game meat. We will be learning about processes such as canning, dehydrating, smoking, baking, frying, boiling, and much more!

### **#1653 NATURAL RESOURCE AND AGRICULTURE PROJECTS** *(Next offered in the 2023-2024 school year)*

**Duration:** 1 semester

**Credit:** ½ credit per semester *(This course can be taken more than once to work on more advanced projects)*

**Open to:** 9-10-11-12

**Description:** In this class you have a chance to work in small groups or individually on subjects in Natural Resources or Agriculture that you have a passion for developing academic knowledge and hands-on skills, in addition to exploring career fields that may suit your future needs. This class is for motivated individuals who would like to explore subjects not taught currently or who are seeking skill advancement in a certain career field he/she feels passionate about exploring. Students in this class are eligible for FFA membership.

### **#1625 OUTDOOR RECREATION AND CRAFTS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This class introduces students to hobbies commonly used in northern MN such as; canoeing, archery, geocaching, and disk golf as well as learning about our edibles. You will also get a chance to build wreaths, pine centerpieces, rods or do a mount.

**#1685 RECREATIONAL PET MANAGEMENT****Duration:** 1 semester**Credit:** ½ credit**Open to:** 9-10-11-12

**Description:** This class will introduce students to the identification, management and care of Dog, Cats, and other animals commonly used for companionship. This class has its own pet lab in which there is reproduction of cage animals.

**#1679 SMALL WILDLIFE MANAGEMENT** *(Not offered in 2022-2023)***Duration:** 1 semester**Credit:** ½ credit**Open to:** 9-10-11-12

**Description:** This class examines the biology, management and hunting of upland game birds such as Turkey, Grouse, Pheasant, as well your common fur bearers such as beaver, muskrat, otter, and fisher. You will learn how to hunt, trap, and process MN small game.

**#1626 VETERINARY ANIMAL SCIENCE** *(Not offered in 2022-2023)***Duration:** 1 semester**Credit:** ½ credit**Open to:** 9-10-11-12**Description:**

This advanced level course is designed to challenge students who have interest in basic scientific fundamentals of veterinary animal production, including feeding and nutrition, reproductive physiology, selective breeding, health, management, and marketing of major and minor species as well as practical commercial applications, such as ration formulation, disease prevention, artificial insemination, genetic selection, and crossbreeding systems. Veterinary skills such as first aid, disease identification, vaccination recommendations, and animal recovery will be covered as well. Successful completion in previous science and animal management classes is recommended.

**#1680 WIDE WORLD of ANIMALS** *(Next offered in the 2023-2024 school year)***Duration:** 1 semester**Credit:** ½ credit**Open to:** 9-10-11-12

**Description:** This course examines the interrelationships of the planet's animals in all seven continents of the globe. We will be examining animals in biospheres such as rainforests, savannas, oceans, deserts, ice caps, and mountains. We will seek to understand how animal populations are managed by all genera of human beings and how they depend on them for survival and quality of life. Expect the content of the material to move quickly as we circle the globe to better understand the role of the animal kingdom in our lives.

### **#TP1650GR WOODLAND STEWARDSHIP**

**Duration:** 1 semester (2 hours)

**Credit:** 1 credit

**Open to:** 10-11-12 – *Teacher permission required.*

**Description:** The crown jewel of this department in which you actually go out every day and harvest timber using chainsaws, ASV loader, forwarder, truck, and 14 foot dump trailer. Includes use of a RC50 & 2021 RT75 ASV. This class is by teacher invite only with preference going to students taking a class in this series.

### **#1651 WOODLAND STEWARDSHIP LEADERSHIP**

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 10-11-12 – *Teacher permission required.*

**Description:** *Woodland Stewardship Leadership MAY be available upon request.*

### **#1660 CIS INTRODUCTION to NATURAL RESOURCES** *(Not offered in 2022-2023)*

**Prerequisites:** Any agriculture or natural resource class by Mr. Linder or teacher consent plus 3.0 GPA for sophomores/juniors and 2.5 for seniors. Students must also take a placement test.

**Duration:** 1 semester

**GRHS Credit:** ½ credit

**ICC Credit:** 1 semester credit

**Open to:** 10-11-12

**Description:** This rigorous college credit bearing course is an introduction to the natural resource field for the outdoor enthusiast who wants to challenge themselves in understanding the comprehensiveness of the world around them. This class will combine the disciplines of forestry, wildlife, fisheries, soils and water conservation to help the student understand how to best utilize the multiple-use resource. This science based course includes numerous outdoor and indoor labs throughout the semester. ***This is a concurrent enrollment course with Itasca Community College.***



# TECHNICAL EDUCATION

## Technical Education Offerings and Sequencing

Course(s)	Gateway Course (Recommended in 9th/10th grade)		Upper Level/Capstone Course (Recommended in 11th/12th grade)	
Auto Mechanics	#1640 Small Engines	#1609 Introduction to the Automobile (with driver’s license)	#1605 Auto Mechanics	#1606 Advanced Auto Mechanics
		#1616 Outdoor Power Sports & Maintenance		
	Small Engines is a required prerequisite to Outdoor Power Sports & Maintenance Either Small Engines OR Intro. to Auto are required to take Auto Mechanics <i>Welding and Basic Electricity are also recommended for Auto Mechanics</i>			
Design and Print	#1622 Design & Print 1		#1623 Design & Print 2	
	Must take Design and Print 1 prior to Design and Print 2			
Engineering Design with Solidworks	#1603 Engineering Design with Solidworks		#1611 Advanced Engineering Design with Solidworks	
	Must take Engineering Design with Soldworks prior to Advanced Engineering Design with Solidworks			
Game Design	#1645 Game: IT 1		#1646 Game: IT 2	
	Must take Game IT: 1 prior to Game IT: 2			

Course(s)	Gateway Course (Recommended in 9th/10th grade)	Upper Level/Capstone Course (Recommended in 11th/12th grade)
Manufacturing Internship	#1614 Basic Machining/Metals (not open to 9th grade students)	#TP13992NK Manufacturing Career Internship (12th grade only)
	#1674 Welding (not open to 9th grade students)	
	Must take Basic Machining OR Welding prior to Manufacturing Career Internship	
Welding	#1674 Welding (not open to 9th grade students)	#2678 Welding/Fabrication (Advanced Welding)
	Must take Welding prior to Welding/Fabrication	
Woodworking	#1604 Woodworking	#1613 Advanced Woodworking
	Must take Woodworking prior to Advanced Woodworking	

<b>Courses that require no prerequisite:</b>	<b>Open to (Grades):</b>
#1640 SMALL ENGINES	9, 10, 11, 12
#1622 DESIGN & PRINT 1	9, 10, 11, 12
#1645 GAME: IT 1	9, 10, 11, 12
#1604 WOODWORKING	9, 10, 11, 12
#1630 & #2630 ADOBE ® PHOTOSHOP	9, 10, 11, 12 (full year course)
#1614 BASIC MACHINING/METALS	10, 11, 12 (2 hour block class)
#1674 WELDING	10, 11, 12 (2 hour block class)
#1644 BASIC ELECTRICITY	10, 11, 12
#1664 CARPENTRY	10, 11, 12 (2 hour block class)
#1609 INTRODUCTION to the AUTOMOBILE	11, 12 - (10th with driver's license)
#2604 AUTO BODY	11,12 (2 hour block class)

### **#1630 & #2630 ADOBE ® PHOTOSHOP**

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 9-10-11-12

**Description:** Discover the most famous digital photo editing software – Adobe Photoshop! Students will create cool projects while learning to manipulate images, retouch photographs, design gradients & backdrops, as well as how to make selections and more.

### **#1622 DESIGN & PRINT 1**

**Prerequisite for:** Design & Print 2

**Duration:** 1 semester

**Credit:** 1/2 credit

**Open to:** 9-10-11-12

**Description:** Students will learn how to create distinctive, vector artwork using Adobe Illustrator, AND how to screen print their designs onto t-shirts! This course will start out with learning about the basics and several tools in the software, an exploration of typography followed by the printing of single and two color screen prints. This is a “hands on” class with a mixture of computer and lab assignments for those who don’t mind getting their hands dirty! *Students receive ½ art credit with this course.*

**#1623 DESIGN & PRINT 2** (*May not be offered every year, plan accordingly*)

**Requirement(s) needed:** Design & Print 1

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** If you enjoyed Design & Print 1, you will want to continue on with this course! We will continue to explore vector graphics, vinyl cutting, laser engraving/cutting of various materials, and heat press techniques, the basics of design and layout, and package design using Adobe Illustrator. *Students receive ½ art credit with this course.*

**#1645 GAME: IT 1**

**Prerequisite for:** Game: IT 2

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Aside from playing games and having fun, this course will introduce you to technical skills related to software development, computer programming and graphic design, utilizing creative, innovative and critical thinking skills. Students will learn to use engineering, physics and mathematical concepts critical to game development through building 4 games using Construct 3, and explore post-secondary education and career options in the fields of science, technology, engineering, and math.

**#1646 GAME: IT 2** (*May not be offered every year, plan accordingly*)

**Requirement(s):** Game: IT 1

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** If you found out that you enjoyed using Construct 3 to develop and create games, Game: IT 2 is the next course in game design and development that engages you in a real life game development company. Students will build 3 guided games that build on some of the functionality required in their own unique team game. Then, students act as a game development company to craft a game following the process of actual game development. Teams are required to form an idea, come up with a marketing plan, outline various roles, develop a proposal, provide weekly status reports and much more.

### **#1603 ENGINEERING DESIGN with SOLIDWORKS**

**Prerequisite for:** Advanced Engineering Design with Solidworks

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This introductory design and engineering course designed to be a starting point for basic computer aided drafting. Students will learn the basics of Solidworks, 2D design and processing, and 3D parametric solid modeling. This course is designed to take students through the design process, working from an idea through final production.

*\*Option for credit at Itasca Community College via portfolio.*

### **#1611 ADVANCED ENGINEERING DESIGN with SOLIDWORKS**

**Requirement(s) needed:** Engineering Design with Solidworks

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** This is an advanced engineering course building off Engineering Design with Solidworks and other skills students bring to the class. This is a hands-on class where students will be building, modeling, testing, and redesigning to create a quality product. Students will be using Solidworks and CNC machines along with hands-on skills to create their products.

### **#1604 WOODWORKING**

**Prerequisite for:** Advanced Woodworking

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** Do you like working with wood? Do you want to make projects which you can select? This course will introduce the students to careers and power & hand tools operations used in the Woodworking Trades. Machine operation and safety will be emphasized and basic cabinets such as desks and nightstands can be constructed. Wood turning techniques will also be included. **Fees: Cost of materials beyond the required.**

### **#1613 ADVANCED WOODWORKING**

**Requirement(s) needed:** Woodworking or Teacher approval

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** **Advanced Woodworking** is a course to further expand students' understanding of woodworking. This course will introduce students to cabinet making techniques. Students will learn advanced uses of materials, machines, CNC machining and other processes. Machine operation and safety will be emphasized with the highest priority in class. This class is designed to accommodate a larger student project that requires attention to detail.

### **#1644 BASIC ELECTRICITY**

**Prerequisite for:** Auto Mechanics (recommended)

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This is the starting place for any student interested in electricity or electronics. Electricians, computer technicians, engineers, auto mechanics and many other career fields need an education in electronics. This is a hands-on course that covers the basics of electricity as well as residential wiring. Students will build two different electronics projects.

### **#1664 CARPENTRY**

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 10-11-12

**Description:** This is a basic residential carpentry course that includes both lecture and lab. Work will be used to teach the basics of house construction. We will be building small buildings inside the carpentry shop. Students should be prepared to perform hands-on work with hammers, power saws, other carpentry tools, and construction materials.

### **#1675 FABRICATION AND DESIGN**

**Requirement(s) needed:** 1 Industrial Art Course

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 12

**Description:** In Fabrication and Design, students will be able to choose a product they would like to create from conceptual design to full manufacturing. Students will have access to all equipment and machinery in the Grand Rapids Tech Center and will learn and apply concepts in advanced machinery and skills such as CNC programming and AutoCAD. Students will operate the class as a student-led business where they will also gain experience in marketing, accounting, material management, and other business operation skills to sell their products.

### **#TP13992NK MANUFACTURING CAREER INTERNSHIP**

**Requirement(s) needed:** 1 Metals/Welding Course

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 12

**Description:** This course will be at Nashwauk-Keewatin H.S. and Intern Company. Students are responsible for transportation.

Students who have the opportunity to participate in the Manufacturing Career Internship will gain real world experience working in businesses and industries in their own communities. Students will be spending time both in the classroom as well as in the regional businesses working. While on internship, students will be applying industrial technology skills and concepts and learning employability and professional skills. In-class time will include local business professional guests sharing their knowledge and experience working in industry and the basic skills needed to succeed in today's workforce. Students will also take multiple tours throughout the internship to see many different kinds of industries and potential job opportunities within Manufacturing.

## **#1616 OUTDOOR POWER SPORTS & MAINTENANCE**

**Requirement(s) needed:** Small Engines

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

Are you interested in snowmobiles, four wheelers, dirt bikes, or any gasoline powered recreational vehicle? Are you also interested in learning to do repairs and maintenance yourself? Then this class was designed for you! In this class you will learn how to do routine maintenance to care for and prolong the life of these vehicles. Other classroom activities may include performance improvements, engine rebuilding, and general repairs to keep you going down the trail, across the lake, and through the woods. Students who enroll in this course should have access to one or more outdoor power equipment to insure student success in this course. This course will be mostly lab based with some classroom activities and demonstrations. Students must complete the Small Engines course in order to enroll in this course.

## **#1640 SMALL ENGINES**

**Prerequisite for:** Outdoor Power Sports & Maintenance, Auto Mechanics

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 9-10-11-12

**Description:** There are 10 million engines produced each year and all of them will need service and maintenance. If you are interested in working in the small engine industry or just want to know how to maintain your own equipment, this class is for you. You will work with a lab partner while you disassemble, measure, evaluate and reassemble two and four cycle engines. There will be an opportunity for you to bring in some of your own equipment as well. We will emphasize safety and careers in this industry through the course. This course is a prerequisite for Outdoor Power Sports & Maintenance and Auto Mechanics.



### **#1609 INTRODUCTION to the AUTOMOBILE**

**Prerequisite for:** Auto Mechanics

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This 1 hour new course is designed to introduce basic automotive concepts and shop practices to female and male students in grades 10-12 who have a difficult time fitting a two block class into their full schedule but would really like to take a Tech Center course and learn about their automobile, along with the personal satisfaction of maintaining and fixing their automobile themselves. This course could be beneficial for any student who plans on owning a vehicle. During this course students will learn about the tools needed to make repairs, preventative maintenance, automotive fluids, working safely in an automotive environment, proper interior/exterior care, how to buy, sell, or trade a vehicle, and much, much more. It is beneficial that students who enroll have access to an automobile and a valid driver's license to insure success during lab activities.

### **#1619 INTRODUCTION to the AUTOMOBILE *for BEGINNERS***

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** Have you ever wondered what all those hoses, wires, and sensors are on your car and how they work? How about all the different fluids that go into today's technologically advanced automobile and where do they all go? What does that dash light mean and how do you fix it and save yourself some money?! If you drive a car, own your own car, and want to understand how to maintain your automobile, this course is specifically designed for women to help them understand this in a comfortable learning environment. This class is open to repairs you and other classmates want to learn about as well. There is no prerequisite for this class but you should have a driver's license and access to an automobile. **(Formerly known as INTRODUCTION to the AUTOMOBILE *for WOMEN*)**

### **#2604 AUTO BODY**

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 11-12

**Description:** If you have wondered how those paint jobs you see on TV or at car shows are done, then this class is the beginning step to entering the world of automotive refinishing. In this class we will study the basic principles of metal straightening, plastic filler repair, block sanding and priming, single stage paints, base coat clear coat paints, paint matching, basic custom painting techniques, airbrushing techniques, and plastic repair/refinishing. Completion of this course will give you the basic skills needed to pursue a career in the Auto body world or enjoy a rewarding hobby. After completion of the required course work there will be time for Instructor approved Auto body projects.

***Students receive 1 art credit with this course.***

### **#1605 AUTO MECHANICS**

**Requirement(s) needed:** Small Engines or Introduction to the Automobile (Welding and Basic Electricity are also recommended)

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 11-12 (10<sup>th</sup> with Driver's License)

**Description:** If you have raised the hood on a late model vehicle and wondered what all those wires, hoses, and lines are then this class is for you. During the course we will study all of the routine maintenance aspects of today's automobiles. If you already know some of the basics or know nothing at all, this course will teach you all that you need to know to become comfortable and confident with vehicle maintenance. This course can also save you hundreds or even thousands of dollars throughout your lifetime since most of us will own a vehicle at some time during our lives. Most of the work performed is done on your own or even a friend's vehicle. A comprehensive unit on vehicle and shop safety is also covered so students can work safely in an automotive environment. Students should have a valid driver's license and access to a vehicle to insure success during the course.

### **#1606 ADVANCED AUTO MECHANICS**

**Requirement(s) needed:** Auto Mechanics

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 11-12

**Description:** Students in the Advanced Auto Mechanics course will be challenged to explore other areas of automotive mechanics. General areas of study include but are not excluded to: engine rebuilding, advanced computer diagnostics, front and rear suspension service, automotive drive trains and performance.

### **#1614 BASIC MACHINING/METALS**

**Duration:** 1 semester

**Credit:** ½ credit

**Open to:** 10-11-12

**Description:** This course is designed to introduce the student to the Machine Trades and careers related to the Metalworking Industry. The student will be exposed to Machining (i.e. lathes, mill, and grinders), Foundry, Forging, Heat Treating, Metallurgy, Sheet Metal, Blueprint Reading, and Precision Measurement. This is primarily a hands-on class and no experience is necessary.

### **#1674 WELDING**

**Prerequisite for:** Welding/Fabrication (Advanced Welding)

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 10-11-12

**Description:** This covers basic techniques used in the welding industry: oxyacetylene welding and cutting, shielded metal, gas metal, gas tungsten arc welding, and plasma arc cutting. Students will spend considerable time in lab developing these skills while being exposed to basic shop practices and career exploration. Welding is a prerequisite for Welding/Fabrication.

### **#2678 WELDING/FABRICATION (ADVANCED WELDING)**

**Requirement(s) needed:** Welding

**Duration:** 1 semester (2 hour block class)

**Credit:** 1 credit

**Open to:** 11-12

**Description:** This is primarily a project oriented course. Students will layout & design, calculate material costs, repair and/or fabricate personal projects. Further development of welding techniques with pipe, mild steel, aluminum, and stainless steel using Arc, MIG and TIG processes will also be an option.



# WORLD LANGUAGES

In world language classes a passing grade in the previous semester is **required** in order to continue in the class the following semester.

## **#1404 & #2404 GERMAN II**

**Requirement(s) needed:** German I

**Prerequisite for:** German III, IV

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10-11-12

**Description:** Second year German students will significantly broaden their vocabulary and writing, reading and speaking skills. Grammar topics are integrated into all the skills and will be thoroughly covered. Unit topics include Grimm Fairy Tales, cooking and shopping, travel and health.



## **#1408 & #2410 IB GERMAN III**

**Requirement(s) needed:** German I and II

**Prerequisite for:** German IV

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** IB German III is the first year in a two year IB program. Students should have a firm grasp of the first two years of German for this course. In addition to a thorough review of grammar and vocabulary, topics of media, the environment, multiculturalism and discrimination, literature and recent history will be introduced. **This course receives weighted grading.**



## **#1412 & #2412 IB GERMAN IV**

**Requirement(s) needed:** German I, II & III

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 12

**Description:** IB German IV will prepare students for the International Baccalaureate exam. A variety of texts will be used, such as short stories, novels, articles and films. Students and the teacher will communicate in German, both writing and speaking. Students will read and discuss a short novel in German. **This course receives weighted grading. The IB exam and examination fees are optional. Students are encouraged to take the IB Exam. See examination fees in the IB Section.**

### **#1418 & #2420 SPANISH I**

**Prerequisite for:** Spanish II, II, IV

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 9-10-11-12

**Description:** First year Spanish lays the foundation for conversational ability through the introduction of basic grammar, everyday vocabulary and cultural understanding. This material is reinforced through written and oral practice, videos, dialogues, and partner and group activities.

### **#1420 & #2422 SPANISH II**

**Requirement(s) needed:** Spanish I

**Prerequisite for:** Spanish III, IV

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 10-11-12

**Description:** Second year students increase their conversational skills and broaden their vocabulary and grammar proficiency by learning stem-changing verbs and the preterit tense. In addition, reading and writing abilities are emphasized. Realistic language use is reinforced through dialogues, compositions and the use of authentic materials.



### **#1428 & #2424 IB SPANISH III**

**Requirement(s) needed:** Spanish I, II

**Prerequisite for:** Spanish IV

**Duration:** 1 year

**Credit:** ½ credit per semester

**Open to:** 11-12

**Description:** Spanish III students greatly expand their skills in the language. Vocabulary and grammar are reviewed and new words, tenses and phrases are introduced to allow students to speak, read, comprehend and write about a variety of subjects including leisure activities, health, entertainment, arts, future plans and current events. Students will also develop a better understanding of the cultures in the Spanish speaking world through research, stories, art and current news. **IB Spanish III is the first year in the 2 year IB sequence and preparation for the standard level IB Spanish Exam. This course receives weighted grading.**



**#1429 & #2430 IB/CITS SPANISH IV – UMD SPAN 1201**

**Requirement:** Spanish III/equivalent language skills. Teacher approval required.

**Duration:** 1 year

**GRHS Credit:** ½ credit per semester

**UMD Credit:** 4 semester credits

**Open to:** 11-12

**Description:** Use of the language in realistic situations is required. Students will study advanced grammar and vocabulary in thematic units such as travel, business and recreation. Students will be asked to find and discuss information presented in Spanish newspapers, magazines and advertising. Short stories, some poems and parts of a novel are also part of the class. The curriculum is preparation for the IB exam. The class is conducted in Spanish with students encouraged to do all communicating in Spanish. **This course receives weighted grading. IB Exam and examination fees are optional.**