



Sophomores

Class of 2021

Your Sophomore Year!

- Types of Diplomas
 - Core 40
 - Graduation requirement for all students
 - Academic Honors
 - The academic honors diploma is recommended for students wanting to pursue a rigorous, advanced course of study during their high school years.
 - Must maintain a 3.0 GPA and C or better in courses
 - This is highly recommended for students who want to go to a 4 year University
 - Technical Honors
 - Focuses on Academics and Technical skills

Your Sophomore Year!

- What is a credit?
 - A credit is earned by passing a course
 - Each class you take counts towards graduation, so you must pass your classes in order to earn credits!
- How many credits do you need?
 - Core 40 Diploma – 42 Credits
 - Academic Honors Diploma – 47 Credits

Your Sophomore Year!

- What is grade point average (GPA)?
 - an average of the grade points you earn in all of the classes that you will take in high school.
 - Good grades = higher GPA.
- Why is your GPA important?
 - Determines eligibility for college, scholarships, and AP courses and much more!

Weighted Grades

*****NEW*****

- North Montgomery will be moving to a weighted grades system of calculating GPA's.
 - A weighted GPA is calculated by awarding additional points to classes that are considered more challenging than the basic curriculum.
- As a sophomore, the following classes will be weighted:
 - Honors English 10
 - Honors Chemistry
 - Honors Algebra II
 - AP Human Geography

Cum Laude System

- A tiered system that recognizes students for the rigor of their academic program as well as their success in the program:
 - Suma Cum Laude- “with highest distinction”
 - 4.2+ weighted GPA
 - Academic or Technical Honors Diploma
 - Complete 8 Tier 2 or 3 courses
 - Magna Cum Laude- “with great distinction”
 - 4.1+ weighted GPA
 - Academic or Technical Honors Diploma
 - Complete 6 Tier 2 or 3 courses
 - Cum Laude- “with distinction”
 - 4.0+ weighted GPA
 - Academic or Technical Honors Diploma
 - Complete 4 Tier 2 or 3 courses

These Honors will be determined at the end of the Senior year and students will be recognized at graduation.

What about Valedictorian and Salutatorian?

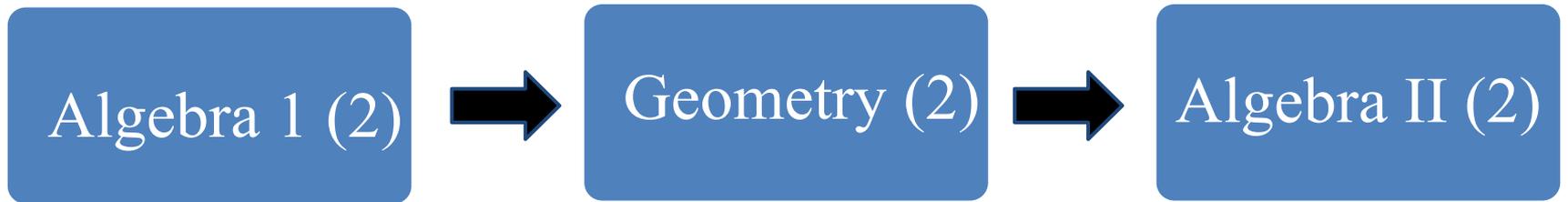
The Latin Cum Laude system of recognition eliminates class rank.

The class of 2021 and beyond will not have a Valedictorian and Salutatorian.

English

Class	Credits/Trimester
English 10	2
English 10, Honors	2

Math



Science

Class

Credits/Trimester

Chemistry I

2

Chemistry I is the study of matter – everything around us – its properties, and the changes matter undergoes. Students will study and investigate these properties and changes through many methods, including laboratory investigations and group work.

Chemistry I, Honors

2

The standards for both Chemistry I and Honors Chemistry are the same; however, students in Honors Chemistry will move more quickly through the material and will cover some additional topics related to the state standards for chemistry.

Int. Chemistry/Physics

2

ICP covers chemistry in 1 trimester and physics in the other. This class is at a slower pace than chemistry and physics and takes a more conceptual approach to understanding the world around you, as opposed to a more mathematical approach.

Additional Science Options

Class

Credits/Trimester

PLTW Principles of Biomedical
Science

2

If science or the medical field (doctor, nurse, x-ray tech, etc.) interests you then this is the class for you as you will investigate the death of Anna Garcia as a forensic scientist who receives autopsy reports about what her post-mortem examination finds as you learn about heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. You will perform a wide variety of online activities, labs, and scientific investigations as you learn about basic biology and how that can lead to problems with the human body, but also how that knowledge can help people live longer, healthier lives.

**This is an advanced science elective.*

Additional Science Options

Class

Credits/Trimester

PLTW Human Body Systems

2

The second sequence of the biomedical program at North involves the students examining the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration while also building organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

**To take this class, you must have already taken PLTW Principles of Biomed.*

Social Studies

Class

Credits/Trimester

Geography/
History of the World

2

This class replaces World History/Civilization. If you did not take (or pass) World History/Civilization your freshman year, you must select this class for Sophomore year. Do not take this class if you've already passed World History/Civilization.

AP Geography

2

(Must complete AP Application)

Study the origins of different cultures and their cultural traits, including food, language and religion. Learn about the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface.

Health (required)

Class

Credits/Trimester

Health

1

World Language

Class	Credits/Trimester
Spanish I	2
Spanish II	2
French I	2
French II	2

Electives

- What is an elective?
 - Extra courses taken to fulfill graduation requirements
- Why take an elective class?
 - Explore your interests.
 - Lighten a demanding class schedule.
 - Have fun studying something you enjoy.

English Electives

Class

Credits/Trimester

Contemporary Literature

1

Want to read modern day novels and stories about science-fiction, growing up, technology, rebellions, time travel, and new cultures? Sign up for contemporary literature next year!

Creative Writing

1

A class for those interested in exploring or developing the basics of creative writing in a workshop format. Students will spend time in the poetry, drama, short story fiction and creative nonfiction genres.

Genres of Literature

1

Genres of Literature explores the genre of Young Adult literature and themes using multiple different avenues. There are discussions, creative projects, films, music and many other projects to help students regain a passion for reading outside of class.

English Electives

Class

Credits/Trimester

Poetry

1

Students will have the opportunity to explore a wide variety of poetry by classic as well as contemporary poets. In addition they will be expected to read, analyze, and write poetry on a weekly basis.

Student Media (Yearbook)

1-3

Yearbook/Publications is designed with the primary goal of producing the annual Charger Flashback yearbook. Students will experience the entire publication process from selling and creating advertisements, design of the cover and page layouts, gathering and writing the feature stories for each page, photography, interview skills, deadlines, organization and more.

Physical Education Electives

Course

Trimesters

Aerobics

1

The content of the class will center on exercise with the total body fitness in mind. Areas of instruction will be exercising for fitness through a variety of aerobic activities including plyometrics, yoga, pilates, kenpo, core, cardio, circuit, tae bo, and dance.

Life Guarding

1

The American Red Cross standards will be used in order to determine certification in CPR for the Professional Rescuer, AED, First Aid, and Life Guarding. The course will include videos, textbook learning, written testing, land-based skill testing, and in-water skill testing.

Physical Education Electives

Course

Credit/Trimesters

Weight Training

1, 2, or 3

1st hour with Mr. Swain

Each day's weight training workout consists of full body training designed to increase muscular strength and endurance. Furthermore, each exercise is followed by a cardiovascular type drill / exercise. The goal is to build the students cardio respiratory endurance, muscular strength, muscular endurance, and flexibility.

Athletic Weight Training

1, 2, or 3

5th hour with Mr. Thompson

Athletic weight training is designed to create a full body muscular workout and incorporate sports specific lifts into the program. The athletic strength training class is a tool that can significantly enhance sports performance through strength and motor control.

Music Electives

Class Credits/Trimester

Band

3

Students explore many styles and uses of music through performance.

Intermediate Chorus

3

Students taking Intermediate Chorus develop musicianship and specific performance skills through ensemble and solo singing. Students develop the ability to understand and convey the composer's intent in performance of music. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom. There is a movement element in this course, and a willingness to dance is expected.

Music Electives

Class

Credits/Trimester

Advanced Chorus

3

(audition required)

This course will explore advanced choral repertoire from all genres and time periods. It is an auditioned group that will have multiple performances throughout the year. Advanced vocal techniques will be practiced as well as basic music theory skills, aural training, and sight-reading. There is a movement element in this course, and a willingness to dance is expected.

Dance Performance

1

This course will expose students to many styles of dance, including ballet, tap, jazz, modern, hip-hop and musical theater. Students will learn about the principles of movement, improve their technique, learn appropriate dance terms, and increase their strength and endurance. Students will also be able to explore their own choreography abilities and complete a major choreography project. No prior experience is required, but students should have an interest in dance and a willingness to participate.

Music

Course

Trimester

Music History & Appreciation

1

Students receive instruction designed to explore music and major musical styles and periods through understanding music in relation to both Western and Non-Western history and culture. Activities include analyzing and describing music; evaluating music and music performances; and understanding relationships between music and the other arts, as well as disciplines outside of the arts

Art Electives

Class

Credits/Trimester

Advanced 2D Art

1

Advanced 2D Art will be a continuation of the media, exercises & techniques that have been explored in Intro 2D Art. Students will explore a variety of media including watercolor & acrylic paintings, graphite, watercolor and acrylic paint, pastels, oil pastels, charcoal, mixed media and clay.

Ceramics

1

Ceramics is a course that introduces students to techniques involved with hand built and electric wheel thrown pottery. Each student will glaze their ceramic projects and learn to fire the electric kiln.

Art Electives

Class

Credits/Trimester

Digital Design

1

Students learn computer graphics and gain firsthand experience with technology and techniques used by professionals in various areas of graphic design and advertising fields.

Drawing

1

Drawing students will develop their observation and accuracy skills as they progress through a variety of classroom assignments such as personal still life's, perspective drawings, portraiture, specific drawing assignments, observational drawing and landscapes.

Art Electives

Class

Credits/Trimester

Fiber Arts

1

Fiber Arts involves the exploration of a variety of traditional and contemporary craft techniques. Good craftsmanship and creativity are stressed as students explore dream catchers, coil baskets, hemp necklaces and keychains, batik, silk painting, weaving and mask making, paper mache, paper making, book binding, and cultural based textiles.

Intro 3D Art

1

3D Art utilizes the concepts of visual design to explore physical space. Students will continue their understanding of the elements and principles of design by transforming personal sketches into sculpture via materials such as: wood, wire, plastics, clay, plaster of paris, cardboard, foam board and found objects.

Art Electives

Class

Credits/Trimester

Intro 2D Art

1

Students will develop the fundamental skills needed for a solid foundation in the visual arts. The elements and principles of design will be introduced through the exciting exploration of various 2-D media and techniques.

Painting

1

Explore the various techniques used in preparing for and creating watercolor and acrylic paintings.

Business Electives

Class Credits/Trimester

Computer Science I

2

Computer Science Principles introduces you to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

Digital Applications & Responsibilities

1

This course prepares students to use computer technology in an effective and appropriate manner. Students develop knowledge of word processing, spreadsheets, presentation and communications software. Students establish what it means to be a good digital citizen and how to use technology appropriately.

Intro to Accounting

2

This is a problem solving course that teaches students the skills of money management. Students learn to track, report, and interpret business finances.

Business Electives

Class	Credits/Trimester
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Intro to Business	2
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Entry level business course that covers basic economics, management and marketing.

Intro to Computer Science	1
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This course will empower you to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.

Web Design	1
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This course provides instruction in the principles of web design using emerging open source software programs. Topics of instruction include audience analysis, hierarchy layout and design techniques by learning HTML and CSS.

Family and Consumer Sciences Electives

Class

Credits/Trimester

Child Development

1

Students interested in studying children, child development, and nurturing of children will covers child development from conception/prenatal through age 3 and includes prenatal development and birth; growth and development of children; child care giving and nurturing; and support systems for parents and caregivers.

Advanced Child Development

1

Advanced Child Development covers issues of child development from age 4 through age 8 (grade 3). Advanced Child Development includes the study of professional and ethical issues in child development; child growth and development; child development theories, child health and wellness; teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing.

Family and Consumer Sciences Electives

Class

Credits/Trimester

Intro to Fashion & Textiles

1

Students interested in the fashion industry will learn about investigating fashion related careers, fashion history, fashion designers, application of elements and principles of design, and clothing care. Learn how to properly operate a sewing machine, as well as complete various sewing projects.

Intro to Housing & Interiors

1

A course for all students interested in studying housing decisions, interior design, and furnishings. This course covers housing decisions including the process of buying and/or renting homes, historical and architectural styling, design and space planning, which involves creating and evaluating floor plans.

Family and Consumer Sciences Electives

Class

Credits/Trimester

Interpersonal Relationships

1

A course that is especially relevant for students interested in careers that involve interacting with people. It is also valuable for all students as a life foundation and academic enrichment. Major course topics include communication, family types, dating and relationships, marriage, grief, handling a crisis, the challenge of change, and relating to older adults.

Family and Consumer Sciences Electives

Class

Credits/Trimester

Intro to Culinary Arts & Hospitality

1

Introductory course for all students interested in learning basic culinary skills. This course covers a wide variety of topics including investigating food and hospitality related careers, safety and sanitation, nutrition, etiquette, and customer relations. Students are able to practice their culinary skills in laboratory experiences.

Advanced Nutrition and Wellness

1

A course for all students interested in improving their nutrition & learn how nutrition affects the human body throughout the stages of life. This course covers the study of major nutrients, nutritional standards, influences on food choices, and career investigation. Students will participate in laboratory experiences that focus on nutritional food choices.

Prerequisite: Intro to Culinary Arts and Hospitality

Engineering and Technology Electives

Class

Credits/Trimester

**Intro to Engineering Design:
Project Lead the Way**
Ivy Tech Dual Credit Course

2

This class focus is introducing students to the aspects of engineering. The students will learn to create things with computer modeling software, work on design projects and learn how to transfer technical information from designer to builder.

Intro to Adv. Manufacturing & Logistics
(dual credit/industry certificates)

2

Apply skills and knowledge of using modern manufacturing processes and machinery. Complete manufacturing simulations. This course will help you prepare for a job in the manufacturing industry.

Engineering and Technology Electives

Class

Credits/Trimester

Intro to Communications

1

Consist of many parts of communication such as formal, informal, technical, machine-human interactions. Interact with each other, robots, & computers. Learn about animation/programming and website design.

Intro to Construction

1

This class will work on the basics of residential construction. The class will be made up of projects such as model homes, wall construction, roof installation, concrete, basic electrical and plumbing.

Intro to Manufacturing

1

Learn hands on portion of manufacturing with the mill, lathe, band-saw, CNC Router, and many other shop tools. Also learn the business aspect of manufacturing and various jobs associated with manufacturing.

Engineering and Technology Electives

Class

Credits/Trimester

Intro to Transportation

1

The transportation class is built up of power, energy and transportation. The students can expect to work with robots, electricity, circuit boards, small engines, model rockets and gearing.

Principles of Engineering: Project Lead the Way

2

Ivy Tech Dual Credit Course

This is the hands on portion of engineering. The class is has many projects including material testing, automation, bridge/truss building, and calculating loads/forces/stress/strain/statics.

Prerequisite: Intro to Engineering Design

Agriculture Electives

Class

Credits/Trimester

Ag Power, Structure, and Technology

2

Ivy Tech Dual Credit Course

Topics covered in class include: small gas engines, arc welding, wood, metal, electricity, agriculture related buildings and structures, safety and safety resources, and career opportunities.

Animal Science

2

Ivy Tech Dual Credit Course

Students participate in a large variety of activities and laboratory work that can be applied to both large and small animals. This course is highly recommended before taking the ALS Animals class.

Agriculture Electives

Class

Credits/Trimester

Horticultural Science

2

Ivy Tech Dual Credit Course

This class focuses on floral designs as they apply to the art of arranging flowers, owning your own flower shop and or greenhouse. The class offers hands on projects in every aspect of the floral design and houseplant care, which includes mechanics and handling of fresh cut flowers and dried materials.

Intro to Ag, Food, and Natural Resources

2

The nature of this course is to provide students with an introduction to ALL Agriculture classes. An activity and project-based approach is used.

Landscape Management

2

Ivy Tech Dual Credit Course

This class focuses on becoming a landscape designer, and owning your own landscaping business by using the current technology trends and practices and necessary skills in landscape operations.

Mass Media

Course

Credit/Trimesters

Announcements –
Mass Media I

1

Become an anchor, sports, lunch, or weather broadcaster, learn editing skills, and inform the school by joining CTV Announcements!!!

Computer Tech Support

Course	Credits
Computer Tech Support	1

The NMHS Student Tech is program designed to help students and staff with our 1:1 initiative and other new technologies at NMHS.

Students will be expected to:

1. Provide basic level support for iPads and PC's for other students and staff members.
2. Handle walk-in questions.
3. Maintain a log of all support requests with detailed information.
4. Participate in training prior to working real shifts.
5. Participate in student-run training programs/and or meetings during the trimester.
6. Follow procedures for urgent requests.
7. Assist teachers with classes.
8. Routinely check for tasks to be completed.
9. Stocking paper and toner for lab printers, helping people one-on-one in the labs and maintaining and cleaning the labs.
10. Use any free time not needed to fulfill the above duties to do self-training to develop your knowledge and skills.

Count the numbers in (parentheses)
after the classes you've circle.

Do they add to 15?

If not, make corrections!

Alternates

- It is not possible to give everyone their first choice so we want to know what else you are interested in taking!
- Please list 3 alternative classes.

Final Notes

- Make sure you sign the form.
- Review your courses with your parents and have them sign the form!
- Bring this form back on the date we will be in the computer lab.

Due Dates

Bring your signed forms:

Mr. Swain 2nd Period: Tuesday January 30

Mrs. Hodges 3rd Period: Wednesday January 31

Mrs. Hodges 4th Period: Wednesday January 31

Mrs. Hodges 5th Period: Wednesday January 31

If you are not in PE this trimester:

Bonus Period January 31

Questions?

Counselors will be available to answer scheduling questions during lunch in the commons on the following days:

Thursday January 25

Friday January 26

Montgomery County College Fair



Wednesday February 21, 2018 | 6:00 –7:30 p.m.
North Montgomery High School Field House

Representatives from Colleges/Universities will answer questions about:

Admissions Requirements | Academic Programs Available | Cost and Financial Aid | Application Process

The event is free but registration is required

To register:

Navigate to www.getocollegefairs.com

Click “Students Register Now”

Select the state of Indiana

Click” Montgomery County College Fair”

Fill out the registration form

The barcode is displayed – print the barcode or take a screen shot of it.