Ulysses
Signature Program
Welcome Ulysses Parents!

- Communication
- Media Center
- Course Sequence
- Program Expectations
- Probation Process
- Ulysses Content Areas
- Grades 11 & 12
- Original Research
- Seniors!
Ulysses Application Process

• Recommended for Honors English 9, Honors Science, and AP Government
• Essay
• Two teacher recommendations
• Application available on NW website December 1, 2018
• Application due Tuesday, February 19, 2019
• Students must reside in NW cluster
Media Center

• Montgomery County Public Library Card
• Database Access
• Favorite Databases

https://docs.google.com/spreadsheets/d/1-ep0_vFww1Hv2AWuWfeMqq4BoO3LSLP05fBcVz1qK5E/edit#gid=0
## Favorite Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>URL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxford ARTONLINE</td>
<td><a href="http://www.oxfordartonline.com/">http://www.oxfordartonline.com/</a></td>
<td>Grove Art is the foremost scholarly art encyclopedia, offering global coverage of visual culture, composed and expanded in collaboration with thousands of scholars and specialists around the world. Benefict offers unique information about the sale and collection of artists’ work, and it is one of the most comprehensive and definitive resources of artists’ biographies available.</td>
</tr>
<tr>
<td>Oxford English Dictionary</td>
<td><a href="http://www.oed.com/">www.oed.com/</a></td>
<td>Authority on the English language. It is an unsurpassed guide to the meaning, history, and pronunciation of 600,000 words—past and present—from across the English-speaking world. As a historical dictionary, the OED is very different from Dictionaries of current English, in which the focus is on present-day meanings. You’ll still find present-day meanings in the OED, but you’ll also find the history of individual words, and of the language—traced through 3 million quotations, from classic literature and specialist periodicals to film scripts and cookery books.</td>
</tr>
<tr>
<td>Rosen Teen Health and Wellness</td>
<td><a href="https://teenhealthandwellness.com/#">https://teenhealthandwellness.com/#</a></td>
<td>Comprehensive curricular support and self-help tools on topics including diseases, drugs, alcohol, nutrition, mental health and much more. Rosen Teen Health &amp; Wellness is an instant, online support network for secondary students.</td>
</tr>
<tr>
<td>Rosen Financial Literacy</td>
<td><a href="http://financialliteracy.rosendigital.com/">http://financialliteracy.rosendigital.com/</a></td>
<td>Rosen Digital’s Financial Literacy database makes economics and personal finance easy to understand and highly engaging. Articles explore macro-, micro-, and global economics as well as personal and household finance. Users will learn to manage credit and debt, save and invest with confidence, plan for college and retirement, and avoid fraud and scams.</td>
</tr>
<tr>
<td>FactCite</td>
<td><a href="http://www.factcite.com">http://www.factcite.com</a></td>
<td>FactCite is a collection of databases that support curriculum and support researchers. Resources include: Mythology, Biography for Beginners, Essential Biographies, Science, American History, Essential Information and Defining Moments in American History. Each database features audio read-along, clean screen designs for optimal readability, citations, keyword searching, indexes by topic, indexes by reading level, regular updates, etc.</td>
</tr>
<tr>
<td>JSTOR</td>
<td><a href="https://www.jstor.org/register?redirectUri=itoken/EchpGFT2qD9ICdnxc9tv/northwesterns.net">https://www.jstor.org/register?redirectUri=itoken/EchpGFT2qD9ICdnxc9tv/northwesterns.net</a></td>
<td>Register for a free account at school. JSTOR provides access to more than 12 million academic journal articles, books, and primary sources in 75 disciplines.</td>
</tr>
</tbody>
</table>
Ulysses Signature Course Sequence

**Grades 9 & 10**
- Signature Honors English 9 & 10
- Signature Honors Biology, Physics 9, & Chemistry
- Signature AP NSL Government
- Signature AP US History

**Grades 11 & 12**
- Signature AP Biology
- Signature AP Physics 1
- Signature AP World History*
- Advanced Research*
- Senior Research Project*

*REQUIRED
Ulysses Program Expectations

• Exemplary attendance, punctuality, and behavioral records
• Maintain 3.0 minimum unweighted GPA in all Ulysses subjects
• Demonstrate academic integrity at all times, on all assignments
Ulysses Program Expectations

- Complete all coursework in timely, satisfactory, and honest manner
- Take initiative to seek assistance from teachers as needed
- Be recommended to the next grade level of Ulysses classes
- B or higher in Advanced Research
Ulysses Probation Process

• Program expectations not met
• Ulysses team input
• Contract conference with student
• Letter mailed home with contract
• Contract signed by student and parent and returned to school within required time frame
• Student has one quarter or one semester to improve
The Advanced Placement
Ulysses Connection

Signature AP World History
AP European History
It’s Academic Coach

Mr. Jason Valazak
AP Social Studies Courses

• More challenging curriculum
• College level skills
• Fulfills county course requirement
• Students together in one section
• Ulysses approach in a College Board class
• Senior project skills
• Fits well with the Ulysses Project objectives
Ulysses AP Government

Field Trip to US Capitol, Tuesday, December 4
Ulysses Science Course Sequence

**Biology First**

Grade 9  
Honors Biology

Grade 10  
Honors Chemistry

Grades 11 and 12

AP Physics 1, AP Chemistry,
AP Biology, AP Physics C
Honors Physics, APES,
Anatomy & Physiology,
Forensic Science

**Physics First**

Grade 9  
Honors Physics

Grade 10  
Honors Chemistry &
Honors Biology
(or AP Biology)

Grades 11 and 12

AP Physics 1, AP Chemistry,
AP Biology, APES, AP Physics C,
Honors Physics,
Anatomy & Physiology,
Forensic Science

**Encourage Biology, Chemistry and Physics**
Ulysses 9th Grade Science

Honors Physics
Honors Physics

• Numerous projects and challenges
  • Zipline design
  • Maglev lab

• Physics Olympics – February 23, 2019
  • Students prepare for and compete in numerous physic-related competitions (ex. egg drop challenge)
Ulysses 9th Grade Science

Honors Biology
Ulysses Biology Program Events

• Ulysses Biology Night
  April 10, 2019
• Dissections
• Invasive Species Database Program
• Guest Speakers
• Scientific Journal Articles
Ulysses Chemistry

• The Toshiba/ NSTA ExploraVision
  – a national competition for K-12 students
  – real world problem solving with a strong emphasis on STEM.
  – challenges students to envision and communicate new technology 20 years in the future through collaborative brainstorming and research of current science and technology.

• Ulysses students have earned Exceptional Merit Awards
AP Physics 1: Real World Physics Problems

1. Students will pick a Hollywood movie and will point out three instances of “bad physics.”

2. Students will research a thrill ride at an amusement park and present safety features of the ride.

3. Students will present information to the class on noise pollution and propose solutions.
AP Biology
Advanced Placement Biology

- Cohort class
- Additional research opportunities and inquiry investigations
- Field trips
- Research articles, presentations, and TED Talks
AP Biology

• Mentoring of Honors Ulysses Students throughout their inquiry projects
  • AP students provide feedback to Honors students in designing, conducting and analyzing their experiment
  • Benefits AP students by allowing them to practice AP Science practice skills (designated by College Board) and edit experimental designs
• Culminates with presentations at Ulysses Biology Night  April 10, 2019
Ulysses English!

Holocaust Museum, October 4
Shakespearience with Mrs. Beverly, October 25
Heifer International is an organization that provides livestock to end hunger and poverty in needy countries. Donations start on Nov. 3rd. Help Feed the World!
Shakespeare Theatre Text Alive!

Saturday, 10am, May 11, Harman Hall
Grade 11

• Advanced Research
• Research Methods
• Specialized Databases
• Scholarly Journals
• Annotated Bibliography
• Literature Review
• Final Project Proposal
• Junior Senior Buddies
Grade 12

- Senior Research Project Class
- Application of Research Methods
- Original Research
- Mentor
- Presentation
- Portfolio
- Exhibition
The Role Of Neural Connections In Physical Behaviors Associated With Dance

By Ritika Miryala

ABSTRACT

The purpose of this study was to investigate the relevance of neural circuits in regulating physical behaviors. The human brain is an intricate network that constantly forms new neural connections which encode various physical behaviors. The more frequently a physical behavior is performed, the stronger its corresponding neural connection becomes. As a result, the
Survey
  - Health
  - Quiz

Interview
  - Washington Redskins tight end
  - Vernon Davis
The Natural Antidepressant: A Study of the Benefits of Immersion in Nature

A Final Project By Logan Loewenstein
The Stereotypes and Stigmas Behind Transracial Adoption in America

Janna Maddox
The Effect of Mass Incarceration on American Society

Denise Kyeremeh
Orchestrating Their Future:
A Study of Music Education’s Effect on Students

By: Jamie Shegogue
The Methods of Black Upbringing

Anithia Battle
COGNITIVE BIASES AND DECISION MAKING

Ethan Martinez
First Robotics Meeting THIS FRIDAY, 6:00pm
Room 355, Mr. Ames
PARENT ATTENDANCE IS MANDATORY!
Four Ulysses Fairs

January 9 & 10, 2019
April 24 & April 25, 2019
7:45am – 11:15am; 12:00pm – 2:30pm
Northwest Preview Night, October 3, 7:00pm
Colleges/Universities

- Amherst College
- Brown University
- College of William & Mary
- Columbia University
- Cornell University
- Dartmouth College
- Duke University
- Georgetown University
- Harvard Law School
- MIT
- New York University
- Princeton University
- Rhode Island School of Design
- UCLA, UC Berkeley
- UMCP, Honors, Scholars, Benneker/Key
- University of Michigan
- University of North Carolina
- University of Pennsylvania
- University of Virginia
- Wake Forest University
- Yale University