



# Major Selection 2011

## Summary Sheet

Please visit <http://www.bths.edu/majors.jsp> for major course descriptions submission information.

### MAJOR COURSES

<b>AEROSPACE ENGINEERING (ROOM 1N3)</b> <i>(PI = AVERAGE + MATH + SCIENCE + TECHNOLOGY)</i>	<b>ELECTRICAL ENGINEERING (ROOM 3N8)</b> <i>(PI = AVERAGE + MATH + SCIENCE + TECHNOLOGY)</i>
<ul style="list-style-type: none"> <li>• Astronomy &amp; Astrophysics</li> <li>• Advanced Placement Physics B</li> <li>• PLTW Aerospace Engineering</li> <li>• Aeronautics / Flight School</li> <li>• Advanced Placement Physics C</li> </ul>	<ul style="list-style-type: none"> <li>• AP Physics B</li> <li>• Advanced Electrical Circuits I &amp; II</li> <li>• PLTW Computer Integrated Manufacturing</li> <li>• Robotics and Automation</li> <li>• Application Design &amp; Development</li> </ul>
<b>ARCHITECTURAL ENGINEERING (ROOM 5N3)</b> <i>(PI = AVERAGE + MATH + 2*TECHNOLOGY)</i>	<b>ENVIRONMENTAL ENGINEERING (ROOM 3E12)</b> <i>(PI = AVERAGE + 2*SCIENCE)</i>
<ul style="list-style-type: none"> <li>• PLTW Civil Engineering and Architecture</li> <li>• Construction Documents</li> <li>• Strength of Materials / Structural Design</li> <li>• Building Construction</li> <li>• Senior Design Studio (Capstone)</li> </ul>	<ul style="list-style-type: none"> <li>• AP Environmental Science</li> <li>• Energy &amp; Engineering</li> <li>• Green Urban Design</li> <li>• Environmental Inquiry or AP Science of Choice</li> </ul>
<b>BIO-MEDICAL ENGINEERING (ROOM 6N2)</b> <i>(PI = AVERAGE + 2* SCIENCE)</i>	<b>MATHEMATICS (ROOM 1N6)</b> <i>(PI = AVERAGE + 2*MATH)</i>
<ul style="list-style-type: none"> <li>• AP Biology</li> <li>• Genetics</li> <li>• Human Anatomy</li> <li>• PLTW Bio-Technical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Math Research</li> <li>• Advanced Euclidean Geometry / Combinatorics</li> <li>• AP Statistics</li> <li>• AP Calculus BC w AP Physics C or Multivariable Calc / Differential Eq. w AP Physics C</li> </ul>
<b>CHEMICAL ENGINEERING (ROOM 3E10)</b> <i>(PI = AVERAGE + MATH + 2*SCIENCE)</i>	<b>MECHANICAL ENGINEERING (ROOM 1S12)</b> <i>(PI = AVERAGE + MATH + SCIENCE + TECHNOLOGY)</i>
<ul style="list-style-type: none"> <li>• AP Chemistry</li> <li>• Quantitative Forensic Analysis</li> <li>• Organic Chemistry</li> <li>• Modern Instrumental Chemical Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• AP Physics B</li> <li>• PLTW Principles of Engineering</li> <li>• Advanced Electrical Circuits I &amp; II</li> <li>• PLTW Computer Integrated Manufacturing</li> <li>• PLTW Engineering Design &amp; Development</li> </ul>
<b>CIVIL ENGINEERING (ROOM 4N6)</b> <i>(PI = AVERAGE + MATH + SCIENCE + TECHNOLOGY)</i>	<b>SOFTWARE ENGINEERING (ROOM 4N2)</b> <i>(PI = AVERAGE + 2*MATH + TECHNOLOGY)</i>
<ul style="list-style-type: none"> <li>• PLTW Civil Engineering and Architecture</li> <li>• Site Surveying</li> <li>• Strength of Materials / Structural Design</li> <li>• Double Period Senior Design Studio</li> </ul>	<ul style="list-style-type: none"> <li>• Database Design with Oracle Level I</li> <li>• Web Development</li> <li>• Database Design with Oracle Level II</li> <li>• Application Design &amp; Development</li> <li>• AP Computer Science (JAVA)</li> </ul>



# MAJOR COURSES

<b>LAW &amp; SOCIETY (LIBRARY)</b> <i>(PI = AVERAGE + 2*SOCIAL STUDIES + ENGLISH)</i>	<b>SOCIAL SCIENCE RESEARCH (ROOM 6N7)</b> <i>(PI = AVERAGE + 2*SOCIAL STUDIES + ENGLISH)</i>
<ul style="list-style-type: none"> <li>• AP American History</li> <li>• Western Political Thought</li> <li>• AP US Government / Constitutional Law</li> <li>• Criminal Law / Criminal Justice</li> <li>• Forensic Criminology</li> <li>• Business &amp; Civil Law / Ethics</li> <li>• AP Comparative Government / Economics</li> </ul>	<ul style="list-style-type: none"> <li>• AP American History</li> <li>• Western Political Thought</li> <li>• AP Human Geography</li> <li>• AP Psychology</li> <li>• Anthropology</li> <li>• Sociology</li> </ul>
<b>MEDIA (ROOM 1N4)</b> <i>(PI = AVERAGE + 2*TECHNOLOGY)</i>	<b>INDUSTRIAL DESIGN (ROOM 6N4)</b> <i>(PI = AVERAGE + 2*TECHNOLOGY)</i>
<ul style="list-style-type: none"> <li>• Adobe Certified Expert &amp; MOUSE</li> <li>• AP Studio Art 2-D</li> <li>• Flash &amp; Dreamweaver / Graphic Marketing</li> <li>• Video Production / Digital Animation</li> </ul>	<ul style="list-style-type: none"> <li>• Product Design</li> <li>• Design &amp; Prototyping</li> <li>• AP Studio Art 3-D</li> <li>• Computer Integrated Manufacturing &amp; Robotics / Engineering Design &amp; Development</li> </ul>
<b>BIOLOGICAL SCIENCES (ROOM 3N1)</b> <i>(PI = AVERAGE + 2*SCIENCE)</i>	<b>COLLEGE PREP (ROOM 4N4)</b> <i>(PI = OPEN ENROLLMENT)</i>
<ul style="list-style-type: none"> <li>• AP Biology</li> <li>• Genetics</li> <li>• Human Anatomy</li> <li>• Organic Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Principles of Engineering</li> <li>• PLTW Technical Elective</li> <li>• Choose 2 of 4:               <ul style="list-style-type: none"> <li>➢ AP Computer Science or</li> <li>➢ AP Calculus / Multivariable Calculus</li> <li>➢ AP Biology, AP Chemistry, AP Physics</li> <li>➢ AP Language</li> </ul> </li> </ul>

## Important Dates

<i>3/9/11 – 3/10/11</i>	<b>Major Selection Presentations</b>
<i>3/11/11 - 3/16/11</i>	<b>Online Selection Process</b> <i>(Will close at 5:00 pm EST)</i>
<i>3/17/11 - 3/25/11</i>	<b>Major Processing</b>
<i>3/30/11</i>	<b>Major Acceptance Distributed</b>

**Note: Students who do not complete the Major Selection Process by the deadline will be placed in “College Prep”.**

*All programs are subject to budget availability and may be modified for instructional reasons as determined by school administration.*

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