

# Aerospace Engineering Curriculum (2008-2009) by Semester

(Revised: November 2008)

<u>Semester 1</u> (4) MATH 191: Calculus & Analytic Geometry I (1) ME 102: Mech & Aero Engr Orientation (4) CHEM 111: General Chemistry I (2) ME 159: Graphical Communication & Design (4) ENGL 111G: Rhetoric and Composition  <b>15 credit hours</b>	<u>Semester 2</u> (4) MATH 192: Calculus & Analytic Geometry II (2) ME 166: Intro. to Mech & Aero Engr (4) CHEM 112: General Chemistry II (3) ME 222: Intro to Product Development/Laboratory (3) Approved Gen. Ed.: Additional Writing Elective  <b>16 credit hours</b>
<b>Total credit hours for Freshman Year: 31</b>	
<u>Semester 3</u> (3) MATH 291: Calculus & Analytic Geometry III (3) PHYS 215: Engr Physics I (3) EE 201: Networks (3) ME 236: Engr Mechanics I (3) Approved Gen. Ed.: Oral Communication elective (3) Approved Gen. Ed.: Social/Behavioral Sciences Elective  <b>18 credit hours</b>	<u>Semester 4</u> (3) MATH 392: Differential Equations (3) PHYS 216: Engr Physics II (3) ME 237: Engr Mechanics II (3) ME 240: Thermodynamics (3) CE301: Mechanics of Materials (3) Approved Gen. Ed.: Social/Behavioral Sciences Elective  <b>18 credit hours</b>
<b>Total credit hours for Sophomore Year: 36</b>	
<u>Semester 5</u> (3) ME 328: Engr Analysis I (3) AE 339: Aerodynamics I (3) AE 362: Orbital Mechanics & Space Environment (3) AE 363: Aerospace Structures (3) CHE 361: Materials (3) Approved Gen. Ed.: Humanities and Fine Arts Elective  <b>18 credit hours</b>	<u>Semester 6</u> (3) ME 260: Engineering Problem Solving (3) AE 439: Aerodynamics II (3) AE 364: Flight Dynamics & Controls (3) ME 341: Heat Transfer (3) ME 345: Experimental Methods I  <b>15 credit hours</b>
<b>Total credit hours for Junior Year: 33</b>	
<u>Semester 7</u> (3) ME 329: Engr Analysis II (3) AE 419: Propulsion (3) AE 424: Aerospace Systems Engineering (3) AE 447: Aerospace Laboratory (1) ME 449: Senior Seminar (3) Approved Gen. Ed.: Humanities and Fine Arts Elective  <b>16 credit hours</b>	<u>Semester 8</u> (3) AE 428: Aerospace Design Project Laboratory (3) AE or Approved ME elective (3) Approved Mathematics elective (3) Approved Gen. Ed.: Humanities and Fine Arts OR Social/Behavioral Sciences Elective (6) Approved Gen. Ed.: Viewing a Wider World Electives  <b>18 credit hours</b>
<b>Total credit hours for Senior Year: 34</b>	
<b>Total credit hours for Graduation: 134 (same as ME)</b>	