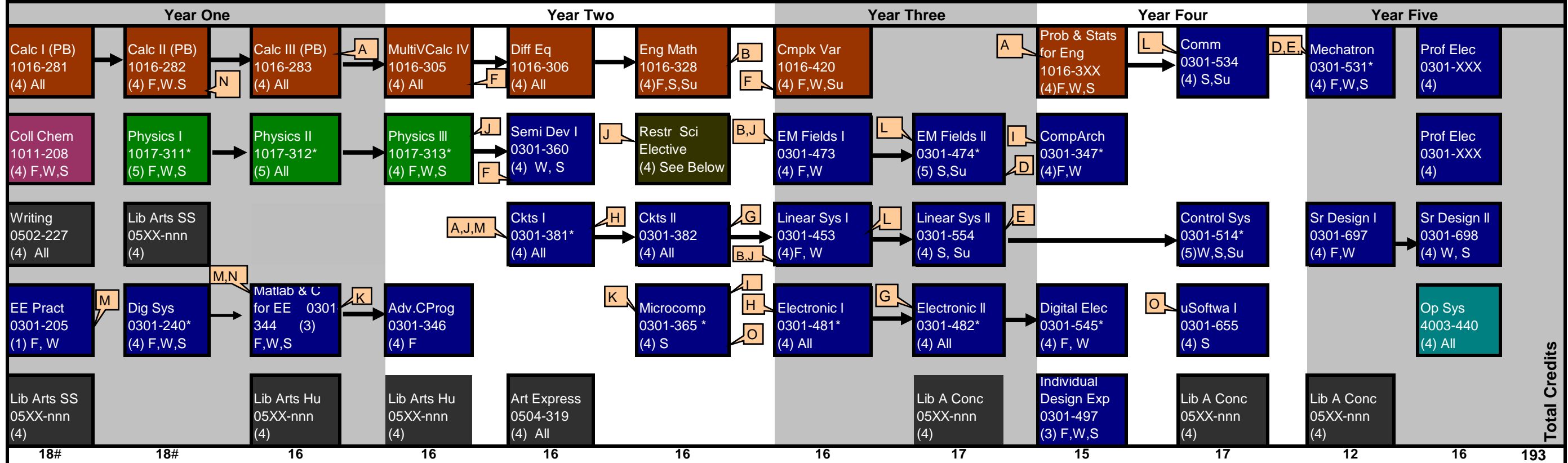


# 2009-2010 RIT BS Core Program in Electrical Engineering with Computer Engineering Option (EEEC) (Final Release VJA 6/30/2009)



Legend	Professional Electives:	Professional Electives from other departments can be taken with approval of Faculty Advisor.	Restricted Science Electives
<p><b>Math</b></p> <p><b>Physics</b></p> <p><b>Chemistry</b></p> <p><b>Liberal Arts</b></p> <p><b>Elect Engr</b></p> <p><b>Free Elect</b></p> <p><b>Comp Science</b></p> <p><b>Res Science</b></p> <p>Course Name</p> <p>Course #</p> <p>(Cr) Quarters-</p> <p>* Indicates lab included</p> <p><b>Prerequisites</b></p> <p>Definitions</p> <p> Course Prerequisites</p> <p> Prerequisite</p>	<p><b>One of the two required Professional Electives must be selected from the Digital &amp; Computer Systems Area</b></p> <p>0301-650 Design of Digital Systems*(F,W)</p> <p>0301-651 Physical Implementation of ICs(F,W)</p> <p><b>Biomedical</b></p> <p>0301-630 Biomed Instrumentation*(W)</p> <p>0301-631 Biomedical Sensors and Transducers I* (W)</p> <p>0301-632 Fund Electrophysiology*(S)</p> <p>0301-633 Biomedical Signal Processing*</p> <p><b>Communications</b></p> <p>0301-677 Dig Filters &amp; Signal Proc (F,Su)</p> <p>0301-692 Communication Networks(W)</p> <p>0301-693 Digital Data Communications(F)</p> <p><b>Control Systems</b></p> <p>0301-615 State Space Contol Sys(F,W)</p> <p>0301-636 Biorobotics/Cybernetics</p> <p>0301-647 Artificial Intelligence(W)</p> <p>0301-685 Principles of Robotics*(F,W)</p>	<p><b>Devices and Integrated Circuits</b></p> <p>0301-610 Analog Electronic Design*(F)</p> <p>0301-612 Adv Semiconductor Dev (F)</p> <p>0301-646 Power Electronics(S)</p> <p>0301-650 Design of Digital Systems*(F,W)</p> <p>0301-679 Analog Filter Design(F)</p> <p><b>Electromagnetic Fields &amp; Optics</b></p> <p>0301-601 Modern Optics for Engineers (F)</p> <p>0301-621 Microwave Engineering*(W)</p> <p><b>MEMS</b></p> <p>0301-686 MEMS Design(F)</p> <p>0301-688 MEMS Systems Evaluation(S)</p> <p><b>Signal Processing</b></p> <p>0301-677 Dig Filters &amp; Signal Proc (F,Su)</p> <p>0301-679 Analog Filter Design(F)</p>	<p><b>1017-314 Modern Physics</b></p> <p>0301-370 Nano-Science, Engr. &amp; Tech(S)</p> <p><b>Cooperative Work Experience:</b></p> <p><b>Five Coop quarters distributed as suggested</b></p> <p><b>PE Activities (2)</b></p>
<p><b>Liberal Arts Core</b></p> <p><b>Social Science Courses</b></p> <p>Choose two courses, one from each of two different areas:</p> <ol style="list-style-type: none"> <li>0514-210 Intro to Psychology</li> <li>0511-211 Principles of Microeconomics</li> <li>0513-211 American Politics OR 0513-214 Intro to International Relations</li> <li>0515-210 Foundations of Sociology</li> <li>0510-210 Cultural Anthropology</li> </ol> <p><b>Liberal Arts Concentration</b></p> <p><b>12 Quarter Credits</b></p>	<p><b>24 Quarter Credits</b></p> <p><b>Humanities Courses</b></p> <p>Choose two courses, one from each of two different areas:</p> <ol style="list-style-type: none"> <li>0507-301 American History</li> <li>0507-302 Modern European History</li> <li>0507-305 Special Topics History</li> <li>0507-306 Special Topics European History</li> <li>0505-213 Visual Arts</li> <li>0505-214 Musical Arts</li> <li>0505-215 Film Arts</li> <li>0505-216 Theater Arts</li> <li>0509-210 Intro. To Philosophy</li> <li>0509-211 Ethics</li> <li>0509-213 Critical Thinking</li> <li>0509-217 Ethics in the Info Age</li> <li>0504-210 Literary &amp; Cultural Studies</li> <li>0508-211 Science, Tech &amp; Values</li> <li>0508-212 Intro to Environmental Studies</li> </ol>		
<p># Credit hours include 1 additional credit for First Year Enrichment</p>			