# First Year Foundational Courses

**Contact:** Brett Looney, M-134, 273-8602, blooney@ufl.edu

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Type</th>
<th>Module</th>
<th>Day(s)</th>
<th>Time</th>
<th>Room</th>
<th>Course Director(s)</th>
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<tbody>
<tr>
<td>GMS 6001</td>
<td>GMS 6001 Schedule (Students, see canvas site for up to date schedule)</td>
<td>5</td>
<td>Semester</td>
<td>1-3</td>
<td>M – F</td>
<td>8:30-10:30</td>
<td>C1-3</td>
<td>J Resnick</td>
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<tr>
<td>GMS 6003</td>
<td>Essentials of Graduate Research &amp; Professional Development</td>
<td>1</td>
<td>Semester</td>
<td>1-3</td>
<td>Th</td>
<td>4:00-5:00</td>
<td>LG-101</td>
<td>W McCormack</td>
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<tr>
<td>GMS 6090</td>
<td>Rotation 1</td>
<td>1</td>
<td>Semester</td>
<td>1-3</td>
<td></td>
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<tr>
<td>GMS 6090</td>
<td>Rotation 2</td>
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<td>GMS 6090</td>
<td>Journal Club</td>
<td>1</td>
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## Elective

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<tr>
<td>GMS 7950</td>
<td>Fundamentals of Biomedical Science Education</td>
<td>2</td>
<td>Semester</td>
<td>1-3</td>
<td>M, W</td>
<td>1:00-2:00</td>
<td>CG-72A</td>
<td>W McCormack</td>
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<tr>
<td>GMS 6622</td>
<td>Mitochondrial Biology in Aging &amp; Disease</td>
<td>2</td>
<td>Semester</td>
<td>1-3</td>
<td>Th</td>
<td>3:00-5:00</td>
<td></td>
<td>J Burman &amp; C Leeuwenburgh</td>
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<tr>
<td>GMS 5909</td>
<td>Finding Biomedical Research Information and Communicating Science</td>
<td>1</td>
<td>Module</td>
<td>1</td>
<td>T, Th</td>
<td>1:00-2:30</td>
<td>C2-3</td>
<td>M Tennant</td>
</tr>
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## Cancer Biology (MSA)

**Graduate Administrator:** Mark Zakshevsky, B1-012, 273-8471, zmz30@ufl.edu

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
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<th>Course Type</th>
<th>Module</th>
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<tbody>
<tr>
<td>GMS 5905</td>
<td>Genetics in Clinical Practice: Precision Oncology</td>
<td>1</td>
<td>Semester</td>
<td>1-3</td>
<td>T</td>
<td>2:00-3:00</td>
<td>R4-265</td>
<td>C Cogle</td>
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<tr>
<td>BCH 7410</td>
<td>Advanced Gene Regulation</td>
<td>1</td>
<td>Module</td>
<td>2</td>
<td>T, Th</td>
<td>9:35-11:30</td>
<td>CGRC 351</td>
<td>J Bungert &amp; S Huang</td>
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<tr>
<td>GMS 6051</td>
<td>Advanced Signal Transduction (ODD YEARS ONLY)</td>
<td>1</td>
<td>Module</td>
<td>3</td>
<td>TBA</td>
<td>TBA</td>
<td>TBA</td>
<td>J Harrison</td>
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<td>GMS 6053</td>
<td>Cancer Biology &amp; Therapeutics (requires a minimum of 5 students) (ODD YEARS ONLY)</td>
<td>1</td>
<td>Module</td>
<td>1</td>
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<td>R5-231</td>
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<td>GMS 6061</td>
<td>The Nucleus (ODD YEARS ONLY)</td>
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<td>Module</td>
<td>3</td>
<td>T, Th</td>
<td>2:00-3:30</td>
<td>CGRC 351</td>
<td>A Ishov</td>
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<td>GMS 6232</td>
<td>Adv. Applications of Bioinformatics in Genetics (ODD YEARS ONLY)</td>
<td>1</td>
<td>Module</td>
<td>1</td>
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<td>10:30-12:00</td>
<td>CG 236</td>
<td>L Zhou</td>
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<td>GMS 6383</td>
<td>Current Topics in Immunology (ODD YEARS ONLY)</td>
<td>1</td>
<td>Module</td>
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<td>10:40-11:30</td>
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<td>GMS 6647</td>
<td>Transcriptional Control of Cell Growth &amp; Proliferation (Elective)</td>
<td>1</td>
<td>Module</td>
<td>2</td>
<td>T,Th</td>
<td>2:00-3:30</td>
<td>DG-41</td>
<td>D Liao &amp; Y Qiu</td>
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<td>Cancer Biology Journal Club</td>
<td>1</td>
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<td>1-3</td>
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<td>11:45-1:00</td>
<td>CGRC R391</td>
<td>M Zajac-Kaye</td>
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<td>GMS 6934</td>
<td>Cancer Biology Data Discussion</td>
<td>1</td>
<td>Module</td>
<td>1-3</td>
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<td>CGRC R133</td>
<td>D Siemann &amp; M Zajac-Kaye</td>
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Biochemistry & Molecular Biology Advanced Program (MSB)

Graduate Administrator: Teresa White, R3-250, 294-8274, teresawhite@ufl.edu

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
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<th>Module</th>
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<tr>
<td>BCH 5413</td>
<td>Eukaryotic Molecular Biology and Genetics</td>
<td>3</td>
<td>Semester</td>
<td>1-3</td>
<td>M,W,F</td>
<td>1:55-2:45</td>
<td>ARB R3-265</td>
<td>T Yang</td>
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<tr>
<td>GMS 6195</td>
<td>Epigenetics Journal Club (with MSB) (S/U)</td>
<td>1</td>
<td>Journal Club</td>
<td>1-3</td>
<td>Th</td>
<td>12:00-1:00</td>
<td>CGRC 351</td>
<td>M Kladde &amp; T Yang</td>
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<td>BCH 6207</td>
<td>Advanced Metabolism: Role of Membranes in Signal Transduction &amp; Metabolic Control</td>
<td>1</td>
<td>Module</td>
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<td>8:30-9:20</td>
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<td>S Frost</td>
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<tr>
<td>BCH 6208</td>
<td>Advanced Metabolism: Regulation of Key Reactions in Carbohydrate &amp; Lipid Metabolism</td>
<td>1</td>
<td>Module</td>
<td>2</td>
<td>M,W,F</td>
<td>8:30-9:20</td>
<td>TBA</td>
<td>S Frost</td>
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<td>BCH 6209</td>
<td>Advanced Metabolism: Regulation of Key Reactions in Amino Acid and Nucleic Metabolism</td>
<td>1</td>
<td>Module</td>
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<td>8:30-9:20</td>
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<td>BCH 6206</td>
<td>Metabolic Control Analysis (same as BCH 6207+6208+6209 above)</td>
<td>3</td>
<td>Semester</td>
<td>1-3</td>
<td>M,W,F</td>
<td>8:30-9:20</td>
<td>R3-265</td>
<td>S Frost</td>
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<td>BCH 6415</td>
<td>Advanced Molecular and Cell Biology (SPRING SEMESTER ONLY)</td>
<td>3</td>
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<td>BCH 6741C</td>
<td>Magnetic Resonance Imaging and Spectroscopy in vivo</td>
<td>3</td>
<td>Semester</td>
<td>1-3</td>
<td>T,Th</td>
<td>10:40-11:30</td>
<td>R3-265</td>
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<td>Molecular Structure Determination by X-ray Crystallography</td>
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<td>Molecular Structure Determination by X-ray Crystallography – Laboratory</td>
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<td>Module</td>
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<td>M Agbandje-McKenna</td>
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<td>Molecular Structure and Dynamics by NMR Spectroscopy (FALL ODD YEARS ONLY)</td>
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<td>Module</td>
<td>2</td>
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<td>10:40-11:30</td>
<td>ARB R3-265</td>
<td>J Long</td>
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<td>Group A- 10:40-1:40</td>
<td>Group B- 4:05-7:05</td>
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<td>BCH 6746</td>
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<td>BCH 6747</td>
<td>Structural Biology/Advanced Physical Biochemistry: Spectroscopy and Hydrodynamics (SPRING SEMESTER ONLY)</td>
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<td>BCH 6749C</td>
<td>Numerical Methods in Structural Biology (SUMMER C SEMESTER ONLY)</td>
<td>1</td>
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<td>BCH 6875</td>
<td>Methodologies and discoveries in crystallography and cryo-electron microscopy (CURRENTLY NOT BEING OFFERED)</td>
<td>1</td>
<td>Journal Club</td>
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<td>R3-265</td>
<td>R McKenna</td>
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<td>Recent Advances in Membrane Biology Journal Club (SPRING ONLY)</td>
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<td>M Merritt</td>
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<td>BCH 6877</td>
<td>Recent Advances in Structural Biology Journal Club</td>
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<td>M</td>
<td>3:30-3:50</td>
<td>R3-265</td>
<td>R McKenna</td>
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<td>BCH 6878</td>
<td>Recent Advances in Cytoskeletal Processes (CURRENTLY NOT BEING OFFERED)</td>
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<td>BCH 6936</td>
<td>Biochemistry &amp; Molecular Biology Journal Club</td>
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<td>11:45</td>
<td>R3-265</td>
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<td>BCH 6040</td>
<td>Research Discussion in Biochemistry &amp; Molecular Biology</td>
<td>1</td>
<td>Semester</td>
<td>1-3</td>
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<td>L Bloom</td>
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<td>BCH 7410</td>
<td>Advanced Gene Regulation (with MSG)</td>
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<td>Module</td>
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<td>T, Th</td>
<td>9:35-11:30</td>
<td>CGRC 351</td>
<td>J Bungert</td>
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<td>BCH 7412</td>
<td>Epigenetics of Human Disease and Development</td>
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<td>Module</td>
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<td>1:55-3:50</td>
<td>CGRC 351</td>
<td>J Lu</td>
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<td>Big Data For the Biologist</td>
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<td>Module</td>
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<td>HME 320</td>
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<td>GMS 5905</td>
<td>Genetics in Clinical Practice: Precision Oncology</td>
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<td>Semester</td>
<td>1-3</td>
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<td>R4-265</td>
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<td>GMS 6038</td>
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<td>9:35-10:25</td>
<td>R2-265</td>
<td>P Gulig</td>
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<td>GMS 6121</td>
<td>Infectious Diseases (SPRING ONLY) ONLINE</td>
<td>3</td>
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<td>P Gulig</td>
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<tr>
<td>GMS 6920</td>
<td>Genetics Journal Colloquy (S/U) Begins Sept 11, 2019</td>
<td>1</td>
<td>Journal Club</td>
<td>1-3</td>
<td>W</td>
<td>4:00-5:00</td>
<td>R2-265</td>
<td>M Wallace &amp; E Wang</td>
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<td>Epigenetics Journal Club (with MSB) (S/U)</td>
<td>1</td>
<td>Journal Club</td>
<td>1-3</td>
<td>Th</td>
<td>12:00-1:00</td>
<td>CGRC 291</td>
<td>M. Kladde</td>
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<td>GMS 6196</td>
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<td>1</td>
<td>Module</td>
<td>3</td>
<td>MWF</td>
<td>9:30</td>
<td>R2-265</td>
<td>D. Bloom</td>
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<tr>
<td>GMS 6232</td>
<td>Adv. Applications of Bioinformatics in Genetics (ODD YEARS ONLY) (Need bioinformatics &amp; programming experience)</td>
<td>1</td>
<td>Module</td>
<td>1</td>
<td>T,Th</td>
<td>10:30-12:00</td>
<td>CG 236</td>
<td>L Zhou</td>
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<td>Advanced Gene Regulation (with MSB)</td>
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<td>2</td>
<td>T,Th</td>
<td>9:30-10:25</td>
<td>CG 133</td>
<td>J Bungert &amp; A Lewin</td>
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<td>GMS 6290</td>
<td>Genetics/Genomics Seminar</td>
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<td>Semester</td>
<td>1-3</td>
<td>F</td>
<td>10:40-11:30</td>
<td>CG 133</td>
<td>S Brooks</td>
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<td>GMS 6506</td>
<td>Biologic Drug Development NOT OFFERED FALL 2018</td>
<td>1</td>
<td>Module</td>
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<td>M,F</td>
<td>4:00-5:30</td>
<td>Split</td>
<td>H Baker</td>
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<tr>
<td>GMS 7191</td>
<td>Research Conference</td>
<td>1</td>
<td>Semester</td>
<td>1-3</td>
<td>T</td>
<td>4:00</td>
<td>CGRC 451</td>
<td>H Baker</td>
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<td>PCB 5065</td>
<td>Advanced Genetics</td>
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<td>Semester</td>
<td>1-3</td>
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<td>11:45-12:35</td>
<td>2318 Fifield Hall</td>
<td>C Chase</td>
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<td>R2-265</td>
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<td>R2-265</td>
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<td>GMS 6221</td>
<td>Ethics in Genetics (FALL ONLY)</td>
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<td>1:55-2:45</td>
<td>HME 331</td>
<td>W Allen &amp; M Wayne</td>
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**Immunology & Microbiology Advanced Program (MSI)**

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**Graduate Administrator:** Kris Minkoff, R2-220, 273-6380, kminkoff@ufl.edu
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Molecular Cell Biology Advanced Program (MSM)
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**Graduate Administrator:** Mark Zakshevsky, B1-012, 273-8471, zmz30@ufl.edu

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**Graduate Administrator:** Elizabeth Fisher, L1-100, 627-9205, elizabethcfisher@ufl.edu

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