# Preliminary Class Schedule: Summer 2017 Semester

**NE 7313: Nuclear Science & Engineering for Secondary Science Teachers**

<table>
<thead>
<tr>
<th>Time / Location</th>
<th>Monday, June 12</th>
<th>Tuesday, June 13</th>
<th>Wednesday, June 14</th>
<th>Thursday, June 15</th>
<th>Friday, June 16</th>
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<tr>
<td><strong>8:00 AM</strong></td>
<td><strong>Time</strong></td>
<td><strong>Location</strong></td>
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<tr>
<td><strong>8:00 AM</strong></td>
<td><strong>Introduction, Registration, Review of Process for Teaching Unit Development / Submission for Class Grade</strong></td>
<td><strong>OLD ALUMNI CENTER</strong></td>
<td><strong>Lab Discussions</strong></td>
<td><strong>OLD ALUMNI CENTER</strong></td>
<td><strong>Reactor Fundamentals - Miller</strong></td>
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<td><strong>9:00</strong></td>
<td><strong>Welcome: Vice Provost, MU Graduate School Video: “Radiation Naturally”</strong></td>
<td><strong>LAB I: GM tube Plateaus</strong></td>
<td><strong>Radiation Protection - Miller</strong></td>
<td><strong>Advanced Nuclear Power Plant Designs and Small Modular Reactors – Bond</strong></td>
<td><strong>Welcome and Overview</strong></td>
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<td><strong>10:00</strong></td>
<td><strong>Big Bang to the Periodic Table - Speck</strong></td>
<td><strong>LAB II: Background Measurement</strong></td>
<td><strong>Population / Math video</strong></td>
<td><strong>Waste Management – Yucca Mountain and WIPP - Miller</strong></td>
<td><strong>10:15 Emergency Preparedness and Fukushima Response</strong></td>
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<td><strong>11:00</strong></td>
<td><strong>Radioactive Emissions &amp; Decay - Miller</strong></td>
<td><strong>LAB III: Radiation Half-Life</strong></td>
<td><strong>Transit to MURR</strong></td>
<td><strong>11:30 Nuclear Accidents: Fukushima and Chernobyl – Graham (Box lunches)</strong></td>
<td><strong>11:00 Lunch, with MO’s Aging Electricity Infrastructure</strong></td>
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<td><strong>12:00 PM</strong></td>
<td><strong>Lunch – Plaza 900</strong></td>
<td><strong>Lunch</strong></td>
<td><strong>Lunch</strong></td>
<td><strong>Plant Tours</strong></td>
<td><strong>11:30 Tour Safety Brief</strong></td>
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<td><strong>1:00</strong></td>
<td><strong>Welcome: MU College of Education</strong></td>
<td><strong>Radiation Counting Statistics - LAB IV: Statistics</strong></td>
<td><strong>Radioisotopes in Biomedical Research - Hoffman</strong></td>
<td><strong>1:00 pm</strong></td>
<td><strong>Course Evaluation / Q&amp;A on Teaching Units / Other Closing Items - Miller</strong></td>
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<td><strong>2:00</strong></td>
<td><strong>Welcome: MU College of Engineering</strong></td>
<td><strong>Interaction of Radiation with Matter</strong></td>
<td><strong>Industrial Uses of Radiation - Miller</strong></td>
<td><strong>2:00 pm</strong></td>
<td><strong>Class Adjourns</strong></td>
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<td><strong>3:00</strong></td>
<td><strong>2:30 Math Fundamentals - Rates of Decay - Miller</strong></td>
<td><strong>LAB V: Inverse Square</strong></td>
<td><strong>3:00 pm</strong></td>
<td><strong>Group 1 – Tour</strong></td>
<td><strong>Group 2 – Tour</strong></td>
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<td><strong>4:00</strong></td>
<td><strong>LAB VI: Gamma-Ray Shielding</strong></td>
<td><strong>Introduction to Medical Imaging and Treatment Modalities - Miller</strong></td>
<td><strong>4:00 pm</strong></td>
<td><strong>Group 1 – XRF-Ferguson</strong></td>
<td><strong>Group 2 – XRF-Ferguson</strong></td>
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<td><strong>6:30</strong></td>
<td><strong>Interactions, continued</strong></td>
<td><strong>Tour: Ellis Nuclear Medicine Clinics - Kennedy</strong></td>
<td><strong>4:15 pm</strong></td>
<td><strong>GM Kit Training, CD Meter / Source Coupon Distribution (Miller, Graham)</strong></td>
<td><strong>6:00 p.m. Les B. - Dinner w/Nuclear Professionals</strong></td>
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