Currently required of all students for ENTM PhD graduate degree as of Fall 2015:

**Ethics** *GRAD 61200 (1 credit)*

**Statistics** (any graduate statistics class applies. BIOL 59500 Ecological Statistics is recommended, others take *STAT 50300 - Statistical Methods for Biology*)
If no prior entomology course Insect biology: *ENTM 60200 Insect Biology*

Summary
Total Courses Required: 7 (8 if no prior experience in entomology)  
Potential credits: 15+  
Professional development activities required: 2 (documented in folder in grad office)

Super-organismal (Pick 1)

Pest Management *ENTM 510000 Insect Pest Management* or *ENTM 521000 Urban and Industrial Pest Management*
Evolution *Biol 58000 Evolution* or *Biol 59200 Evolution of Behavior.*
Molecular Genetics, Systematics, & Phylogeny *ENTM 59500 Systematics & Phylogenetic Methods*
Molecular Systematics *ENTM 60300 Insect Molecular Genetics, Systematics & Phylogeny*

Organismal (Pick 1)

Taxonomy *ENTM 50600 Advanced Insect Taxonomy*
Medical/veterinary *ENTM 52500 Medical and Veterinary Entomology*
Behavior *ENTM 61500 Advanced Insect Behavior*

Cellular/subcellular (Pick 1)

Physiology *ENTM 55100 Insect Physiology and Biochemistry*
Toxicology *ENTM 61100 Toxicology of Insecticides*

Special Seminar 1 Credit Classes (PICK 2, at least one of these will be offered every semester) (Current list as of Spring 2014)

<table>
<thead>
<tr>
<th>Spring 2014</th>
<th>Organismal</th>
<th>Suborganismal</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Fall 14</em></td>
<td>Chem. Ecol (Ginzel)</td>
<td>Exp. Design (Richmond)</td>
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<tr>
<td><em>Spring 15</em></td>
<td>Urban Ecol (Mason)</td>
<td>Insect Biomaterials (Neal)</td>
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<td><em>Fall 15</em></td>
<td>Ins. Plt Int. (Kaplan) Beh. Genetics (Hunt)</td>
<td>Myriapodology (Holland)</td>
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<td><em>Spring 16</em></td>
<td>Tax, Phyl (Zaspel)</td>
<td>GMO (Krupke)</td>
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<tr>
<td><em>Fall 16</em></td>
<td><em>Spring 17</em></td>
<td>Ins. Resist.: Mech., Evol., Mgmt (Scharf)</td>
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</table>
Professional Development (Pick 1 from each of 2 categories):
Presentation skills (seminar and teaching): Includes TA Lab Instruction, guest lectures, department seminars (ENTM and elsewhere) presentations at scientific meetings (ESA, Branch meetings, OVEA), CIE workshops on teaching; Research Communication (Grad 590); Extension Meeting/Workshop
Scientific Writing: Grant proposal development (may be part of preliminary exam), submission of a journal manuscript, review of a journal manuscript
GRAD 59000 Preparing Future Faculty or Preparing Future Professionals