Example IDEAS Program Roadmap (for ‘Direct Track’, Ecology PhD)

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| Year 1 | **ECOL 8000**: Topics in Modern Ecology (3)  
**ECOL 8310**: Population and Community Ecology (3)  
**GRSC 8550**: Responsible Conduct of Research (1)  
**Journal Club, Ex.1 IDIS 8050**: Special Topics in Ecology and Evolution of Infectious Diseases (1) | **ECOL 8322**: Concepts and Approaches in Ecosystem Ecology * (4)  
**ECOL(BIOL) 4150/6150**: Population Biology of Infectious Diseases (4)  
**Journal Club, Ex.2 IDIS(ECOL) 8240**: Vector-borne Diseases in a Changing World (1)  
**Ex.3 POPH 8580**: Current Topics in Wildlife Health (1) |
| Year 2 | **ECOL 8510**: Fundamentals of Disease Biology ** (4)  
**Journal Club, Ex.4 IDIS 8590**: Special Topics on Diseases Intervention (1)  
**Ex.5 IDIS 8550**: Special Topics in Immunology (1) | **ECOL 8530**: Interdisciplinary Problem Solving in Infectious Disease Ecology (3)  
**Technical elective, Ex.A ECOL 8910**: Perspectives in Computational Ecology (3)  
**Ex.B EPID(BIOS) 8060**: Modern Applied Data Analysis (3) |
| Year 3 | Dissertation Research | Dissertation Research |
| Year 4 | Dissertation Research | Dissertation Research |
| Year 5 | Dissertation Research | Dissertation Research |

Ecology course requirements are in green / IDEAS requirements are in red

* This course is only offered alternate years, so may be taken in Year 1 or 2.
** This course is only offered alternate years, so may be taken in Year 2 or 3.

<table>
<thead>
<tr>
<th>Computational Training</th>
<th>Professional Development</th>
</tr>
</thead>
</table>
| **ECOL 8540**: Computational Modeling Workshop  
- two 2-credit workshops are offered every Maymester  
- a total of 4 credits is required | **Communications Training**  
- workshops are offered once a year |
| **Internship**  
- a semester or summer-long experience is required  
- see IDEAS website for a list of suggested internship sites | **Internship**  
- a semester or summer-long experience is required  
- see IDEAS website for a list of suggested internship sites |