

# Graduate Track/Specialty Area

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Name of Track:                     **Computational Life Science**                    

Faculty Member(s) using track:           **Robert Brazile, Bill Buckles, Armin Mikler, JungHwan Oh, Phil Sweany, Xiaohui Yuan**          

**Required Courses for all Tracks:** *4 credits (Algorithms and 1-hour seminar course) are required for all tracks.*

Course Number	Course Name	Credits	Semester Taken
<b>CSCE 5020</b>	Current Research in CSE	1	
<b>CSCE 5150</b>	Analysis of Computer Algorithms	3	

**Track Core Courses:** *Each track will require a minimum of 9 credits to be chosen from a list of at least 3 courses. This list may include specific courses that students must take, provide a choice between a short list of courses, or any combination thereof.*

**Core Courses Required:**           **3 (9 cr)**          

Course Number	Course Name	Credits	Semester Taken
<b>CSCE 5200</b>	Information Retrieval and Web Search	3	
<b>CSCE 5210</b>	Artificial Intelligence	3	
<b>CSCE 5933</b>	Bio Computing (currently as special topic)	3	
<b>CSCE 5933</b>	Computational Epidemiology / Life Science (currently as special topic)	3	
<b>CSCE 5933</b>	Data Mining (currently as special topic)	3	
<b>CSCE 6933</b>	Advanced Topics in Computational Life Sciences	3	

**Supporting Courses Required:**   **2/4**   *(may include core courses not selected)*

Course Number	Course Name	Credits	Semester Taken
<b>CSCE 5160</b>	Parallel Processing and Algorithms	3	
<b>CSCE 5170</b>	Graph Theory for Computer Scientists	3	
<b>CSCE 5213</b>	Modeling and Simulation	3	
<b>CSCE 5230</b>	Methods of Numerical Computation	3	
<b>CSCE 5350</b>	Database Systems I	3	
<b>CSCE 5415</b>	Machine Learning	3	
<b>CSCE 6100</b>	Theory of Computation	3	
<b>CSCE 6230</b>	Advanced Scientific Computing	3	
<b>CSCE 6480</b>	Advanced Artificial Intelligence	3	
<b>CSCE xxxx</b>	Image Processing	3	

**Total Required Courses for Track/Specialty Area:**   **5/7**  

Major Professor: \_\_\_\_\_

Graduate Coordinator: \_\_\_\_\_ Date: \_\_\_\_\_  
*Dr. Armin Mikler*

Department Chair: \_\_\_\_\_ Date: \_\_\_\_\_  
*Dr. Krishna Kavi*