

**Course Requirements and Registration Priorities**  
**School of Science and Technology (Master), Spring 2019**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SSH</b>											
<b>Biological Science</b>											
1	BIOL 570	Advanced Biotechnology	3	6				Biological Sciences	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
2	BIOL 580	Applied Bioinformatics	3	6	BIOL 520 Statistical Methods in Life Sciences (1203) (C and above)			Biological Sciences	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
3	BIOL 591	Cellular Biophysics	3	6				Biological Sciences	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
4	BIOL 600	Graduate Seminar Series	3	6				Biological Sciences			
5	BIOL 699	Research Thesis II	6	12				Instructor's permission required. Registration by Add Course form only			
<b>Mathematics</b>											
6	MATH 512	Optimization Methods and Techniques	3	6				Applied Mathematics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
7	MATH 519	Scientific Computing	3	6				Applied Mathematics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
8	MATH 541	Data Analysis and Statistical Learning	3	6	MATH 540 Statistical Learning (2340) (B- and above)			Applied Mathematics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
9	MATH 551	Advanced Numerical Methods	3	6				Applied Mathematics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
<b>Physics</b>											
10	PHYS 510	Quantum Mechanics	3	6				Physics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
11	PHYS 520	Statistical Physics	3	6				Physics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
<b>SEDS</b>											
<b>Computer Science</b>											
12	CSCI 502	Hardware Software Co-Design	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)			Computer Science, Robotics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
13	CSCI 515	Modeling and Simulation for Computer Science	3	6				Computer Science, Robotics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	

14	CSCI 591	Advanced Artificial Intelligence	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above) OR DS 501 Fundamentals of Data Science (5218) (C- and above)		Computer Science	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
15	CSCI 694	Thesis	15	30			Registration by SST School Office			
16	SEDS 502	Teaching Practicum	3	6			Registration by SST School Office			
17	SEDS 504	Innovation and Entrepreneurship	3	6			Registration by SST School Office			
18	SEDS 592	Research Seminar	3	6			Registration by SST School Office			
<b>Robotics and Mechatronics</b>										
19	ROBT 502	Robot Perception & Vision	3	6	ROBT 501 Robot Manipulation and Mobility (2263) (C- and above)		Robotics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	