

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

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SSH											
Biological Science											
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			
Mathematics											
6	MATH 512	Optimization Methods and Techniques	3	6	MATH 517 Scientific Modeling and Simulation with Mathematics (2341) (B- and above)			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	MATH 517 Scientific Modeling and Simulation with Mathematics (2341) (B- and above)			Applied Mathematics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
Physics											
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	
12	SST 502	Teaching Practicum	3	6	SST 501 Teaching and Learning (2260) (C- and above)			Registration by SST School Office			
13	SST 504	Innovation & Entrepreneurship	3	6				Registration by SST School Office			
14	SST 592	Research Seminar	3	6				Registration by SST School Office			

15	SST 692	Thesis	15	30				Registration by SST School Office			
SEDS											
Computer Science											
16	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	
17	CSCI 515	Modeling and Simulation for Computer Science	3	6				Computer Science, Robotics	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
18	CSCI 591	Advanced Artificial Intelligence	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)			Computer Science	SST	GSB, GSE, GSPP, SEng, SHSS, SMG, SoM	
Robotics and Mechatronics											
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	