

College of Science
MSSST Degree Program
Course Listing through Spring 2011

Department	Course Number	Course Title	Major/ Allied	Sem Hours
BIOL	1330	Plants and Society	Major	3
BIOL	1400	Intro to Environmental Science	Major	3
BIOL	2020	Principals of Cell Biology	Major	3
BIOL	2030	Genetics	Major	3
BIOL	2210	Human Genetics	Major	3
BIOL	2320	Human Physiology	Major	3
BIOL	2400	Principles of Wildlife Conservation	Major	3
BIOL	2420	Human Physiology	Major	5
BIOL	2425	Physiology Lab	Major	1
BIOL	3230	Developmental Biology	Major	3
BIOL	3310	Comparative Vert. Morphology	Major	3
BIOL	3360	Vertebrate Embryology	Major	3
BIOL	3410	Ecology and Evolution	Major	3
BIOL	3415	Ecology Lab	Major	3
BIOL	3460	Global Environmental Issues	Major	3
BIOL	3700	Evolution	Major	4
BIOL	3960	Special Topics in Biology	Major	3
BIOL	5215	Advanced Cell Lab	Major	3
BIOL	5320	Biology of Agression	Major	3
BIOL	5415	Ecology Lab	Major	3
BIOL	5470	Stable Isotopes	Major	3
BIOL	5475	Stable Isotopes Lab	Major	3
BIOL	5900	Teaching Experience	Major	3
BIOL	6950	Individual Study - Project	Major	2
BIOL	6960	Independent Study	Major	3
BIOL	6961	Genetics for Secondary School Teachers	Major	3
BIOL	6962	Topics - Cell Division Development	Major	3
BIOL	6964	Urban Ecology and Evolution	Major	3
BIOL	6970	Research Lab Experience	Major	6
BIOL	6975	MSSST Project	Major	3
BIOL	7962	Advanced Topics: Cell Development Genetics	Major	3
BIOL	7963	Advanced Topics: Physiological Organisms	Major	3

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CHEM	1010	Chemistry Humanity and the Environment	Major	3
CHEM	1210	General Chemistry	Major	5
CHEM	1230	Chemistry Lab	Major	1
CHEM	1400	Elementary Chemistry	Major	4
CHEM	1410	Elemental Organic Chemistry	Major	4
CHEM	2310	Organic Chemistry I	Major	4
CHEM	2320	Organic Chemistry II	Major	4
CHEM	2700	Intro to Math Cad	Major	1
CHEM	2700	Quantitative Analysis	Major	4
CHEM	3000	Quantitative Analysis	Major	4
CHEM	3110	Inorganic Chemistry	Major	4
CHEM	3160	Physical Chemistry	Major	4
CHEM	3330	Organic Chemistry	Major	4
CHEM	3430	Organic Chemistry Lab	Major	1
CHEM	3510	Biological Chemistry I	Major	3
CHEM	4900	Directed Study	Major	4
CHEM	5380	Special Topics in Modern Chem ED	Major	4
CHEM	5380	Special Topics in Modern Chemistry	Major	4
CHEM	5600	Special Lab Techniques	Major	2
CHEM	6900	Project Hours	Major	3
CHEM	6970	Research Lab Experience	Major	6
CHEM	6980	Faculty Consultation	Major	3

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MATH	1210	Calculus I	Major	4
MATH	1220	Calculus II	Major	4
MATH	2160	Introduction to Scientific Computing	Major	3
MATH	2210	Calculus III	Major	4
MATH	2250	ODE's and Linear Algebra	Major	3
MATH	2270	Linear Algebra	Major	4
MATH	2280	Intro to Differential Equations	Major	4
MATH	3010	History of Math	Major	3
MATH	3070	Applied Statistics I	Major	4
MATH	3090	Applied Statistics II	Major	4
MATH	3100	Design of Experiments	Major	4
MATH	3105	Foundations of Geometry	Major	3
MATH	3105	Geometry Practicum	Major	1
MATH	3150	Partial Differential Equations	Major	3
MATH	3160	Complex Variables	Major	3
MATH	3210	Foundations of Analysis I	Major	3
MATH	3220	Foundations of Analysis II	Major	3
MATH	4010	Mathematics for Elementary Teachers	Major	3
MATH	4030	Foundations of Algebra	Major	3
MATH	4035	Algebra Practicum	Major	3
MATH	4090	Teaching Math Secondary	Major	3
MATH	4200	Intro to Complex Variables	Major	3
MATH	4400	Intro to Number Theory	Major	3
MATH	4510	Intro to Topology	Major	3
MATH	4530	Curves and Surfaces in Euclidean Space	Major	3

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MATH	5000	Undergraduate Problems	Major	1
MATH	5010	Into to Probability	Major	4
MATH	5040	Stochastic Processes I	Major	3
MATH	5050	Stochastic Processes II	Major	4
MATH	5080	Statistical Inference I	Major	3
MATH	5110	Math Biology I	Major	3
MATH	5120	Math Biology II	Major	3
MATH	5210	Intro to Real Analysis	Major	4
MATH	5215	Applied Fourier Analysis	Major	3
MATH	5220	Intro to Alg/Geo Topology	Major	4
MATH	5250	Matrix Analysis	Major	3
MATH	5310	Intro to Modern Algebra I	Major	3
MATH	5320	Intro to Modern Algebra II	Major	4
MATH	5410	Ordinary Differential Equations I	Major	3
MATH	5420	Ordinary Differential Equations II	Major	6
MATH	5440	Partial Differential Equations	Major	3
MATH	5470	Chaos Theory	Major	3
MATH	5600	Survey of Numerical Analysis	Major	3
MATH	5610	Numerical Analysis I	Major	1
MATH	5620	Numerical Analysis II	Major	3
MATH	5700	Capstone Course	Major	5
MATH	5710	Intro to Applied Math I	Major	3
MATH	5720	Intro to Applied Math II	Major	3
MATH	5740	Math Modeling	Major	3
MATH	5750	Topics in Applied Math	Major	3
MATH	5900	Topics - Mathematics	Major	3
MATH	5910	Supervised Reading (Undergraduate)	Major	2
MATH	5960	Special Projects - Scientific Computing	Major	3
MATH	6090	Advanced Topics in Mathematics	Major	3
MATH	6910	Supervised Reading (Graduate)	Major	3
MATH	6750	Science in Mathematics	Major	3
MATH	6960	Speacial Projects - Research	Major	3
MATH	6970	Math Project	Major	3
MATH	6980	Faculty Consultation	Major	3

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ASTR	2060	Popular Observational Astronomy	Major	3
ASTR	3060	Elementary Astronomy	Major	3
ASTR	5590	Introduction to Astrophysics	Major	3
PHYS	1050	Solar System	Major	3
PHYS	1060	Astronomy - The Solar System	Major	3
PHYS	1070	The Universe	Major	3
PHYS	2010	General Physics I	Major	4
PHYS	2020	General Physics II	Major	4
PHYS	2215	Physics Lab	Major	1
PHYS	2210	Physics for Science and Engin I	Major	4
PHYS	2219	Physics Lab	Major	1
PHYS	2220	Physics for Science & Engin II	Major	4
PHYS	2225	Physics Lab	Major	1
PHYS	3010	Physics for Science & Engineering	Major	4
PHYS	3110	Physics of the Human Body	Major	3
PHYS	3150	Energy and Sustainability	Major	3
PHYS	3410	Modern Practical Optics	Major	4
PHYS	3719	Undergraduate Lab	Major	4
PHYS	3730	Intro to Computing	Major	4
PHYS	3740	Quantum Mech. & Reality	Major	3
PHYS	3740	Quantum Physics	Major	3
PHYS	4060	Observational Astronomy	Major	3
PHYS	5030	Theoretical Quantum Mechanics	Major	3
PHYS	5070	Physics Teaching Methods	Major	3
PHYS	5150	Astronomy & Teaching Methods	Major	4
PHYS	5610	Electronics	Major	4
PHYS	5739	Scanning Electron Microscopy	Major	4
PHYS	6610	Electronics I	Major	4
PHYS	6630	Electronics III	Major	4
PHYS	6910	Computer Applications	Major	4
PHYS	6910	Electricity & Magnetism	Major	4
PHYS	6910	Mechanical & Teaching Methods	Major	4
PHYS	6950	Special Reading Topics	Major	3
PHYS	6961	Quantum Mech. & Solid State	Major	4

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ACCTG	6740	Object Oriented Technology	Allied	3
ACCTG	6750	Telecommunications	Allied	3
ANTH	1201	Human Origin Evolution and Diversity	Allied	3
CP SC	1040	Programming with Pascal	Allied	4
CP SC	2750	Advanced Pascal Programming	Allied	3
ED PS	6010	Intro to Educational Stats	Allied	3
ED PS	6510	Learning and Behavior	Allied	5
ED PS	6950	Student Development	Allied	3
ED PS	6010	Intro to Ed Statistic	Allied	3
ED ST	4670	Microcomputer Fundamentals	Allied	3
ED ST	5580	Content Area Reading	Allied	3
ED ST	5810	Cooperative Learning	Allied	3
ED ST	6010	Teaching Strategies	Allied	3
ED ST	6180	Classics Education Lit	Allied	3
ED ST	6220	Theories of Instruction	Allied	3
ED ST	6410	Secondary School Curriculum	Allied	3
ED ST	6446	Integration Ed Tech	Allied	3
ED ST	6491	Action Research	Allied	3
ED ST	6510	Multicultural Education	Allied	3
EDST	6830	Kids Drive Me Nuts	Allied	2
EDU	5990	Formative Assessment	Allied	3
EDU	6720	Research in Teaching and Learning Math	Allied	3
EDU	6950	Cohort Seminar	Allied	3
ELP	6050	Project Evaluation	Allied	3
FCS	5230	Adolescent Development	Allied	3

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GEO	1000	Architecture of the Earth	Allied	3
GEO	1001	Earthquakes and Volcanoes	Allied	3
GEO	1600	Dinosaurs	Allied	3
GEO	3290	Hydrogeography	Allied	3
GEO	3340	Modern Natural Disasters	Allied	3
GEO	3800	Oceanography	Allied	3
GEO	5470	Stable Isotope Ecology	Allied	3
GEO	6470	Stable Isotope Ecology	Allied	3
GEO	1010	Exploring Earth	Allied	3
HEDU	3030	Medical Terminology	Allied	3
HEDU	3160	Stress Management	Allied	3
HGEN	6230	5th Generation Biology	Allied	3
METEO	1010	Intro to Meteorology	Allied	3
MGT	2340	Business Statistics	Allied	3
NURS	2270	Pathophysiology	Allied	3
NURS	4270	Pathophysiology II	Allied	3
PATH	3900	Medical Biochemistry	Allied	3
PATH	7990	Basic Immunology	Allied	3
PSCI	5550	Chemical Safety	Allied	3
PHIL	3520	Bioethics	Allied	3
SEC ED	5150	Science Education Workshop	Allied	2
SP ED	5010	Human Exceptionality	Allied	3
T & L	5126	Content Area Literacy	Allied	3
T & L	5940	Workshop in Education	Allied	2
T & L	6126	Contents Literacy	Allied	3
T & L	6126	Reading and Writing in the Curriculum Area	Allied	3
T & L	6410	Curriculum Assessment	Allied	3
T & L	6720	Research on Teaching Math	Allied	3
T & L	6721	Research Math Teaching	Allied	3
T & L	6723	Special Topics in Math Education	Allied	3
T & L	6730	Research on Learning Math	Allied	3
T & L	6741	Eval and SEL Instructor Technology	Allied	3
T & L	6800	Teaching: Theory and Practice	Allied	3
T & L	6950	Teaching and Learning Algebra	Allied	3
T & L	7761	Design of Research	Allied	3