

SUB	NUMB	Banner Title	Last Term Offered
ASTR	303	Black Holes	
ASTR	405	Honors Thesis in Astronomy I	Fall 2010
ASTR	406	Honors Thesis in Astronomy II	Spring 2011
BINF	334	Perl for Bioinformatics	
BINF	354	Fndtns in Mathematical Biology	Fall 2006
BINF	403	Bioinformatics/Comp Biol Lab I	
BINF	404	Bioinformatics/Comp Bio Lab II	
BINF	450	Bioinformat for Life Sciences	
BINF	470	Molecular Biophysics	
BINF	491	Senior Rsch Bioinformatics I	
BINF	492	Senior Rsch Bioinformatics II	
BIOL	140	Plants and People	Spring 2016
BIOL	295	Summer Research in Biology	Spring 2017
BIOL	303	Animal Biology	Summer 2011
BIOL	304	Plant Biology	Summer 2011
BIOL	320	Comp Chordate Anatomy	Fall 2007
BIOL	335	Forensic Entomology	
BIOL	336	Invertebrate Paleontology	
BIOL	340	Introductory Botany	
BIOL	351	Conservation Seminar	
BIOL	353	Small Population Management	
BIOL	354	Research in Conservation	
BIOL	356	Landscape/Macrosystems Ecology	
BIOL	357	Ecology Field Skills	
BIOL	379	RS: Ecological Sustainability	Spring 2017
BIOL	409	Medical Mycology	
BIOL	411	Advanced General Genetic	
BIOL	418	Current Top in Microbiol	Spring 2015
BIOL	422	Stem Cell Biol/Regenerativ Med	
BIOL	427	Disease Ecology & Conservation	
BIOL	433	Selected Topics Plant Biology	Summer 2009
BIOL	444	Tropical Ecology Laboratory	Spring 2016
BIOL	446	Ecological/Evolutn Physiology	
BIOL	455	Marine Mammal Biol/Conserv Fld	Summer 2012
BIOL	459	Fungi and Ecosystems	Fall 2015
BIOL	468	Vertebrate Natural History	
BIOL	470	Dinosaur Biology	Fall 2016
BIOL	471	Evolution	Spring 2015
CDS	421	Computational Data Science	
CDS	487	Electronic Structre Computatns	Spring 2016
CHEM	105	Intro Chemistry Laboratory	Fall 2014
CHEM	106	Intro Chemistry Laboratory II	
CHEM	156	Intro Environmtl Chem II	
CHEM	413	Synthetic/Mechanistic Org Chem	Spring 2017
CHEM	424	Principles of Chem. Separation	
CHEM	439	RS: Atmospheric Chemistry II	
CHEM	452	Special Projects in Chemistry	Fall 2017
CHEM	467	Chem of Enzyme-Catalyzed React	Spring 2015
CLIM	312	Physical Climatology	
CLIM	390	Topics Climate Research	Spring 2015
CLIM	438	Atmospheric Chemistry	
COS	402	Special Topics in Science	

EVPP	378	RS: Ecological Sustainability	Spring 2017
EVPP	409	Medical Mycology	
EVPP	420	Marine Mammal Biol/Conserv Fld	Summer 2012
EVPP	451	Fungi and Ecosystems	Fall 2015
EVPP	472	Tools/Techniques for Int Dev	
FRSC	420	Forensic Toxicology	
GEOL	408	Practicum Geology Labs	Spring 2015
GEOL	409	Practicum for Geol Labs	Fall 2015
GEOL	417	Geophysics	
GGS	312	Physical Climatology	Fall 2017
GGS	315	Geography of the United States	Fall 2016
GGS	319	Air Pollution	Fall 2016
GGS	320	Geography of Europe	Fall 2014
GGS	322	Issues in Global Change	Fall 2015
GGS	330	Geog Soviet Succession States	Spring 2017
GGS	380	Geography of Virginia	Fall 2016
GGS	384	S Topc Geospatial Intelligence	
GGS	410	Intro to Hyperspectral Imaging	
GGS	490	Practicum Geographical Appli	Spring 2015
GGS	495	GGS Senior Research Project	Summer 2014
MATH	009	Prep Coll Algeb-In Class	Fall 2015
MATH	044	Business Math Preparation	Spring 2016
MATH	045	STEM Math Prep	Spring 2016
MATH	104	Trigonometry/Transcend Functio	Fall 2017
MATH	112	Discrete Mathematics for IT	Spring 2015
MATH	307	Mathematical modeling	
PHYS	124	Exp Exploratr in Physics	Fall 2014
PHYS	225	Problems in Physics I	Summer 2016
PHYS	310	Semicond Materials/Proc	
PHYS	325	Interm Methods Exp Phys	
PHYS	332	Solar Cells	Fall 2014
PHYS	346	Quarks to Strings	Fall 2017
PHYS	370	Molecular Biophysics	
PHYS	391	Special Topics in Physics	
PHYS	405	Honors Thesis in Physics I	
PHYS	406	Honors Thesis in Physics II	
PHYS	417	Geophysics	
BIOL	352	Biodiversity Monitoring	

SUB	NUMB	Banner Title	Last Term Offered
ASTR	532	Phys Interplanetary Med	
ASTR	590	Selected Tps in Astr/Astrphys	Fall 2007
ASTR	660	Plasma Physics Space/Astrophys	
ASTR	764	Computatnl Astrophysics	Spring 2013
ASTR	765	Hi Enrgy/Accrtn Astrphys	Fall 2005
ASTR	790	Topics in Astronomy/Astrphysic	Spring 2011
ASTR	798	Research Project	Spring 2008
ASTR	799	Masters Thesis	
ASTR	999	Doctoral Dissertation	
BINF	530	Intro Bioinformatics Methods	
BINF	531	Molecular Cell Biology	Fall 2017
BINF	550	Intr Bioinform Database Design	
BINF	636	Microarray Meth/Analysis	Fall 2009
BINF	637	Forensic DNA Sciences	Spring 2011
BINF	639	Introduction to Biometrics	Fall 2010
BINF	650	Intr Bioinform Database Design	Fall 2015
BINF	733	Gene Expression Analysis	Fall 2010
BINF	734	Adv Bioinformatics Programming	Spring 2014
BINF	741	Intro Computer Simul Biomolec	Fall 2006
BINF	751	Biochemical/Cellular Sys Model	Fall 2005
BINF	760	Machine Learning Bioinformatic	
BINF	820	Advncd Tpcs in Molecu Cell Bio	Spring 2007
BINF	831	Structural Genomics Project	
BINF	841	Rsrch Tpcs in Biomolecular Sim	Spring 2006
BIOL	509	DNA Analysis Biolog Evidence	Summer 2013
BIOL	510	Forensic DNA Analysis Lab	Spring 2013
BIOL	515	Developmental Neurobiology	Fall 2012
BIOL	533	Sel Topics:Plant Biology	Summer 2009
BIOL	543	Tropical Ecosystems	Spring 2014
BIOL	550	Waterscape Ecology/Mgmt	
BIOL	555	Lab in Waterscap Ecology	
BIOL	556	Advnc Tpcs in Micro Phys Metab	
BIOL	559	Fungi and Ecosystems	Fall 2013
BIOL	561	Comp Animal Physiology	
BIOL	564	Techniques in Virology	
BIOL	572	Human Genetics	Fall 2011
BIOL	573	Developmental Genetics	
BIOL	577	Biogeochemistry:Global	
BIOL	578	Mutation/DNA/Env Contam	Fall 2005
BIOL	582	Estuarine and Coastal Ecol Lab	
BIOL	589	Teaching Practicum	Spring 2012
BIOL	607	Fundamentals of Ecology	Fall 2013
BIOL	608	Topics in Biology	Summer 2008
BIOL	610	Bioremediation:Thry/Appl	
BIOL	611	Techns Environ Microbiol	
BIOL	643	Microbial Ecology	Fall 2009
BIOL	644	Wetland Ecology and Mgmt	
BIOL	645	Freshwater Ecology	
BIOL	649	Biological Resource Mgmt	
BIOL	650	Envrmnt Anly and Modeling	
BIOL	665	Envir Hzrds Human Health	
BIOL	668	Adv Tchng in Mleculr Bio	
BIOL	675	Aerosol Biology	Summer 2010

BIOL	678	Cell-Based Assays	Spring 2016
BIOL	680	Exp Des and Anly Life Sc	
BIOL	692	Seminar in Biology	Spring 2014
BIOL	718	Techni in Microbial Pathogenes	
BIOL	720	Microbial Metabolism	
BIOL	745	Environmental Toxicology	Fall 2010
BIOS	719	Extremophiles	
BIOS	744	Molecular Genetics	Fall 2015
BIOS	760	Sem Molecular Systematic	
BIOS	761	Dispersal Patt Biol Agents	
BIOS	765	Molecular Systematics	
BIOS	782	Interdisc Iss: Law/Polcy	
BMED	610	Principles of Systems Biology	Fall 2014
BMED	611	Molecular Genetics	Fall 2014
BMED	612	Principles of Gross Anatomy	Fall 2014
BMED	613	Pathophysiology	Spring 2015
BMED	614	Introduction to Neuroscience	Spring 2015
BMED	653	Forum and Research	Spring 2015
CHEM	500	Sel Top:Modern Chemistry	Fall 2012
CHEM	513	Synth/Mech Organic Chem	Spring 2017
CHEM	620	Modern Instrumentation	Fall 2016
CHEM	661	Antibiotic Chem and Resistance	Fall 2016
CHEM	662	Modern Methods Drug Discovery	Summer 2014
CHEM	665	Protein-Protein Int:Meth/Appl	Summer 2017
CHEM	728	Intro to Solid Surfaces	Spring 2009
CHEM	767	Industrial Biochemistry	
CHEM	814	Advanced Bioorganic Chemistry	Fall 2013
CHEM	821	Theory of Analytical Processes	Fall 2010
CHEM	891	Doctoral Scientific Critique	Fall 2016
CLIM	700	Climate Comprehensive Exam	Spring 2016
CLIM	754	Elements Tropical Climate Syst	Spring 2016
CLIM	798	Master's Climate Research Proj	Spring 2016
CSI	590	Quantitative Foundations	
CSI	597	Topics Science/Engr Simulation	
CSI	606	Sci Graph/Visualztn Tool	Fall 2007
CSI	629	Topics in Continuum Systems	
CSI	638	Policy Process for Scientists	
CSI	662	Introduction to Space Weather	Spring 2015
CSI	670	Economic Systems Design	
CSI	676	Regression Analysis	Fall 2012
CSI	685	Fund of Materials Science	Fall 2015
CSI	687	Solid State Phys and Appli	Spring 2012
CSI	701	Fnd of Computatnl Sci	Fall 2014
CSI	712	Intro Solid State Physic	
CSI	713	Quantum Chemistry	
CSI	714	Spectroscopy/Structure	
CSI	719	Topics in Cmputatnl Chem	
CSI	720	Fluid Mechanics	Fall 2012
CSI	722	Computatnl Fluid Dyn II	Fall 2011
CSI	723	Fluid Mechanics II	
CSI	739	Topics in Bioinformatics	Spring 2012
CSI	744	Linear/Nonlinear Mdl/NS	
CSI	749	Top in Computatnl Math	Spring 2007
CSI	754	Erth Sci Data & Adv Data Analy	Spring 2012

CSI	763	Stat Mthd Space Sciences	Spring 2014
CSI	764	Computatnl Astrophysics	Spring 2013
CSI	771	Computational Statistics	Fall 2015
CSI	772	Statistical Learning	Spring 2016
CSI	773	Stat Graph/Data Explortn	Fall 2017
CSI	775	Graph Mod Inference/Deci Makng	Spring 2017
CSI	779	Topics in Computat Stat	Spring 2014
CSI	787	Computatnl Material Sci	Spring 2016
CSI	788	Simulation Lrg-Scale Syst	Fall 2006
CSI	799	Master's Thesis	Fall 2016
CSI	854	Comp/Comm Sys-Erth Obser	Spring 2011
CSI	876	Measure and Linear Spaces	Fall 2015
CSI	877	Geometric Meth in Stats	Spring 2016
CSI	885	Atomistic Modeling of Material	Fall 2010
CSI	898	Research Colloquia	Spring 2017
CSI	971	Probability Theory	Fall 2013
CSI	972	Mathematical Statistics I	Fall 2012
CSI	973	Mathematical Statistics II	Spring 2011
CSI	978	Stat Analysis of Signals	
CSI	979	Adv Top Computatnl Stats	Summer 2015
CSI	991	Sem in Scientific Computing	Spring 2016
CSS	630	Comparative Comput Soc Sci	
CSS	640	Human/Social Evol Complexity	
CSS	643	Land-Use Model Tech and App	Spring 2017
CSS	650	Physics Method for Soc Complex	Spring 2013
CSS	655	Social Systems Dynamics	Fall 2016
CSS	665	Complex Adaptv Syst/Public Pol	Fall 2016
CSS	798	Research Project	Spring 2011
CSS	899	Colloquium in Comp Social Sci	Fall 2017
CSS	909	Adv Top in Compu Soc Sci	
EVPP	503	Field Mapping Techniques	Fall 2017
EVPP	520	Marine Mammal Biol/Conservatn	
EVPP	525	Econ of Human/Envir Interctns	Fall 2008
EVPP	531	Land-use Modeling Techniq/Apps	Spring 2013
EVPP	543	Tropical Ecosystems	Spring 2017
EVPP	551	Fungi and Ecosystems	Fall 2015
EVPP	572	Tools/Techniques for Int Dev	
EVPP	577	Biogeochemistry	
EVPP	610	Bioremediation: Thry/App	
EVPP	626	Env/Dev-South/East Asia	Spring 2009
EVPP	627	Env Policy in Latin Amer	
EVPP	628	Environment/Devel-Africa	
EVPP	630	Methods/Logic Soc Inquir	
EVPP	631	Spatial Agent-Base Mod Hum/Env	Spring 2012
EVPP	635	Environment and Society	Fall 2017
EVPP	636	Gender, Race, Natur Wrld	
EVPP	645	Freshwater Ecology	
EVPP	652	The Hydrosphere	Spring 2013
EVPP	675	Environ Planning/Adm	Fall 2010
EVPP	682	Prin Environmntal Conflict Reso	Fall 2011
EVPP	683	Sit Assmn,Proc Dsgn/Best Pract	Spring 2012
EVPP	684	Env Conf: Ldrship Prctcm/Cpstn	
EVPP	730	Envr Policy Research Practice	Spring 2011
EVPP	738	Sustainable Enterprise Theory	

EVPP	741	Advanced Topics in ESPP	Spring 2017
EVPP	745	Environmental Toxicology	Fall 2017
EVPP	792	Seminar Earth Systems Science	Spring 2009
FRSC	799	Master's Thesis	Spring 2011
GEOL	535	Quantitative Stratigraphy	
GEOL	700	Comprehensive Exam	
GGS	501	GGS DE Orientation	
GGS	505	Transportation Geography	Spring 2017
GGS	520	Geography for Teachers	Fall 2013
GGS	524	Intro Envir and Resource Econ	
GGS	525	Econ of Human/Env Interactions	
GGS	531	Land-use Modeling Techniq/Apps	Spring 2017
GGS	554	History of Cartography	Fall 2016
GGS	581	World Food and Population	Fall 2016
GGS	605	Systematic Applications of GIS	Spring 2015
GGS	644	Fund/Interpret Imaging Radar	
GGS	655	Map Design	
GGS	658	Terrain Mapping	Fall 2016
GGS	660	Automated Cartography	
GGS	661	Map Projection/Coordinate Syst	
GGS	671	Algorithms and Modeling in GIS	Fall 2013
GGS	674	Environmental Impact Analysis	
GGS	704	Spatial Demography	Spring 2016
GGS	721	Biogeography	Fall 2014
GGS	759	Topics Earth Systems Science	Spring 2014
GGS	772	Cloud Geog Info Systems	Spring 2012
GGS	792	Seminar Earth Systems Science	Spring 2016
MATH	556	Actuarial Modeling II	Spring 2017
MATH	601	Analysis for Teachers I	Fall 2013
MATH	602	Analysis for Teachers II	Summer 2012
MATH	604	Geometry for Teachers	Spring 2015
MATH	605	Discr/Finite for Teacher	Fall 2011
MATH	607	Algebraic Struct-Teacher	Fall 2014
MATH	608	Problem Solving in Math	Summer 2014
MATH	619	Topics in Mathematical Logic	Spring 2011
MATH	624	Euclidean Geometry	Fall 2016
MATH	644	Convex and Discrete Geometry	Spring 2008
MATH	654	Construct/Eval Actuarial II	Summer 2017
MATH	655	Pension Valuation	
MATH	671	Fourier Analysis	Fall 2012
MATH	683	Mod Optimizatn Theory	
MATH	687	Variational Methods	Spring 2005
MATH	722	Algebraic Topology	Spring 2012
MATH	732	Topology II: Set Theory Topolo	Spring 2011
MATH	763	Functions of Several Cmplx Var	Spring 2017
MATH	772	Wavelet Theory	Fall 2011
MATH	781	Adv Methods in Applied Math	Fall 2017
MATH	790	Classical Potential Theory	
MATH	800	Studies Doc Arts Educ	
NEUR	600	Chemistry and the Brain	Spring 2015
NEUR	604	Research Ethics	Spring 2013
NEUR	611	Philosophical Found of Neurosc	Spring 2015
NEUR	621	Synaptic Plasticity	Fall 2015
NEUR	709	Neuroscience Seminars	Fall 2017

NEUR	710	Spec Topics Neuroscience	
NEUR	734	Computational Neurobiology	Spring 2016
NEUR	735	Computational Neurosci Systems	
NEUR	741	Intro to Neuroimaging	Spring 2012
NEUR	742	Cognitive Neuroscience	Spring 2007
NEUR	751	Applied Dynamic-Neurosci	
NEUR	752	Modern Instrumentation	
NEUR	851	Adv Computat/Brain Dynam	
PHYS	580	Selected Interdisciplin Topics	Spring 2016
PHYS	600	ST: Physics for Teachers	Summer 2008
PHYS	611	Electro-optics	
PHYS	612	Phys of Modern Imaging	
PHYS	614	Thermodyn/Kinetics of Material	Fall 2014
PHYS	630	Introduction to Biophysics	Spring 2009
PHYS	660	Space Weather	Spring 2017
PHYS	701	Theoretical Physics	Spring 2012
PHYS	760	Space Plasma Physics	Spring 2016