

	Graduate School Governance Actions		
	2024-2025 Academic Year		
		Graduate School	
	Courses		
Discontinued (232)			
	Total Discontinued (232) Courses		0
	Graduate Programs		
Revised Major Concentrations/Tracks			
	Total Revised Major Concentrations/Tracks		0
Discontinued Major Concentrations/Tracks			
	Total Discontinued Major Concentrations/Tracks		0
New Certificates			
	Total New Certificates		0
	Total Graduate School Governance Actions		0
		College of Agriculture and Life Sciences	
	Courses		
New	AAEC 6244: Empirical Analysis of Markets and Policy (Key: 13196)		
	ALCE 5884: Social Change Communication (Key: 13116)		
	HNFE 5254: Program Development in Health Education (Key: 13058)		
	HNFE 5704: Dietetics and Professional Management Supervised Practice (Key: 13031)		
	HNFE 5714: Community Nutrition Supervised Practice (Key: 13032)		
	HNFE 5724: Foodservice Management Supervised Practice (Key: 13034)		
	HNFE 5734: Clinical Nutrition Supervised Practice (Key: 13033)		
	Total New Courses		7
Revised	CSES 5524: Advanced Drone Applications in Ag Systems (Key: 2878)		
	ENT 6154: Insect Physiology and Molecular Biology (Key: 4537)		
	HNFE 5344: Nutrition Counseling for Behavior Change (Key: 6148)		
	LDRS 5534: Leading with Cognitive Diversity (Key: 6979)		
	Total Revised Courses		4
Discontinued			
	Total Discontinued Courses		0
Discontinued (232)	AAEC 5024: Math Programming for Economics (Key: 63)		
	ALS 5116: Nutrition (Key: 563)		

	CSES 5744G: Advanced Managed Ecosystems Services & Sustainability (Key: 2888)	
	CSES 5844: Molecular Genetics for Crop Improvement (Key: 2891)	
	FIW 5114: Conservation Genetics (Key: 4838)	
	FIW 5414: Endangered Species Management (Key: 4846)	
	FST 5404: Food Packaging (Key: 5215)	
	HORT 5514: Plant Nutrition (Key: 6262)	
	PPWS 5034: Clinic and Field Experience (Key: 8878)	
	Total Discontinued (232) Courses	9
Revised Majors	MSND: Master of Science in Nutrition and Dietetics (Key:484)	
	Total Revised Majors	1
	Total College of Agriculture and Life Sciences Governance Actions	21
College of Architecture, Arts, and Design		
	Courses	
New		
	Total New Courses	0
Revised		
	Total Revised Courses	0
Discontinued		
	Total Discontinued Courses	0
Discontinued (232)	TA 5514: Topics in Theatre Technology II (Key: 10102)	
	TA 5534: Topics in Theatre Technology IV (Key: 10104)	
	Total Discontinued (232) Courses	2
	Graduate Programs	
New Certificates		
	Total New Certificates	0
Revised Certificates		
	Total Revised Certificates	0
	Total College of Architecture and Urban Studies Governance Actions	2
Pamplin College of Business		
	Courses	
New	ACIS 5654: Advanced Accounting Analytics (Key: 13003)	
	ACIS 5744: Business Analytics and Visualizations (Key: 13055)	
	BIT 5544: Introduction to Generative AI in Business (Key: 11290)	
	MKTG 5644: Marketing Analytics In A Digital World (Key: 11244)	
	Total New Courses	4

Revised	ACIS 5064: Taxation of Business Operations & Advanced Individual Income Tax Topics (Key: 10876)	
	ACIS 5194: Financial Statement Analysis (Key: 168)	
	ACIS 5324: Taxation of Business Entities (Key: 172)	
	ACIS 5414: Advanced Financial Statement Auditing (Key: 178)	
	ACIS 5424: Research and Analysis in Accounting (Key: 179)	
	ACIS 5664: Sustainability Accounting (Key: 10799)	
	Total Revised Courses	6
Discontinued	ACIS 5654G: Advanced Accounting Analytics (Key: 194)	
	Total Discontinued Courses	1
Discontinued (232)	BIT 5484: Cognitive Computing for Smart Services (Key: 1556)	
	BIT 6344: Decision Analytics Seminar (Key: 1576)	
	HTM 6424: HRM Hosp Seminar (Key: 6343)	
	HTM 6444: Adv Meth for Hosp App (Key: 6345)	
	HTM 6454: Hosp Mktg Res Prob (Key: 6346)	
	Total Discontinued (232) Courses	5
New Major Option	MSBA: Global Business Analytics (Key: 483)	
	Total Major Concentrations/Tracks	1
New Certificates		
	Total New Certificates	0
Revised Certificates		
	Total Revised Certificates	0
Discontinued Certificates		
	Total Discontinued Certificates	0
	Total Pamplin College of Business Governance Actions	17
	College of Engineering	
	Courses	
New	AOE 5634: Aerospace and Ocean Materials and Modeling Techniques (Key: 11051)	
	AOE 5704: Sensors and Algorithms for Autonomous Navigation (Key: 11000)	
	BC 5174: Decision Making and Risk Management (Key: 13215)	
	CEE 5234: Topics in Water Resources and Coastal Engineering (Key: 11325)	
	CEE 5364: Compound Flood Hazard Modeling (Key: 11326)	
	CS 5740: AI Tools for Software Engineering (Key: 11279)	
	ECE 5024: Math Methods for ECE (Key: 10958)	
	ECE 5044: Industry Topics and Professionalism (Key: 10949)	
	ECE 5124: Quantum Engineering and Technologies (Key: 11313)	
	ECE 5114: Quantum Engineering Laboratory (Key: 11314)	

	ECE 5294: Power Electronics and Systems for Renewable and Grid of the Future (Key: 13084)	
	ECE 5354: Advanced Microgrids (Key: 13046)	
	ECE 5440: Brain-inspired Computer Architecture (Key: 11260)	
	ECE 5474: Mathematical Foundation of Reinforcement Learning (Key: 10967)	
	ECE 5610: Satellite Communication Systems (Key: 11291)	
	ECE 6474: Deep Reinforcement Learning (Key: 11262)	
	ISE 5894: Socio-Technical Systems: Principles, Conceptualization, and Design (Key: 13166)	
	ISE 6654: Industrial Augmented Reality (Key: 13001)	
	ISE 6664: Affective Design and Computing (Key: 13133)	
	MINE 5334: Hydrometallurgy (Key: 11057)	
	MSE 5344: Failure Analysis (Key: 10998)	
	Total New Courses	21
Revised	BC 5144: Sustainable Infrastructure Systems (Key: 1236)	
	BMES 5124 ESM 5224: Advanced Musculoskeletal Biomechanics (Key: 4637)	
	CEE 5600: Transportation Systems Analysis (Key: 2065)	
	CS 5925 ECE 5095: Integrated Project Design (Key: 11214)	
	CS 5926 ECE 5096: Integrated Project Design (Key: 11215)	
	ECE 5014: Research and Development Methods for Engineers (Key: 3062)	
	ECE 5374G: Advanced Alternate Energy for Climate Sustainability (Key: 3098)	
	ECE 5464: Applications of Machine Learning (Key: 3107)	
	ISE 5154: Human Systems Integration (Key: 6655)	
	ISE 6024: Advanced Topics in Management Systems Engineering (Key: 6700)	
	Total Revised Courses	10
Discontinued (232)	AOE 6154: Turbulent Shear Flow (Key: 740)	
	CEE 5344: Surface-Groundwater Interaction (Key: 2024)	
	CEE 5444: Stability of Structures (Key: 2041)	
	CEE 5510: Thermal and Energy Geotechnics (Key: 2055)	
	CEE 5814: Structure-Sediment Interaction (Key: 2094)	
	CEE 5864: Coastal Estuarine Morphodynamics (Key: 2098)	
	ECE 5506: Test & Fault-Tolerant Computing (Key: 3115)	
	ECE 6214: Optoelectronic Devices (Key: 3180)	
	ENGE 5504: Practicum in Engineering Classroom (Key: 4189)	
	ENGE 5714: Topics in Engineering Ed Research Methods (Key: 4193)	
	ESM 5124: Theory of Elasticity (Key: 4631)	
	ESM 5134: Advanced Mechanics of Materials (Key: 4632)	
	ESM 5344: Wave Propagation in Solids (Key: 4648)	
	ESM 5405: Biomedical Engineering Internship (Key: 4650)	
	ESM 5406: Biomedical Engineering Internship (Key: 4651)	

	ESM 5504: Introduction to Ideal Flow (Key: 4656)	
	ESM 5514: Viscous Flow (Key: 4657)	
	ESM 6054: Fracture Mechanics (Key: 4674)	
	ESM 6514: Computational Methods in Viscous Flow (Key: 4687)	
	ESM 6714: Applied Tensor Analysis (Key: 4690)	
	ISE 6444: Inventory and Operations Management (Key: 6708)	
	ME 5324: Radiation Heat Transfer (Key: 7266)	
	ME 5744: Methods in Mechanical Engineering Analysis (Key: 7302)	
	ME 5854G: Advanced Nano/Micromechanics of Materials (Key: 7311)	
	ME 6804: Control of Legged Locomotion (Key: 7337)	
	MINE 5084: Stability of Rock Slopes (Key: 7783)	
	MINE 5094: Particulate Process Modeling (Key: 7785)	
	MINE 5204: Reservoir Geomechanics (Key: 7788)	
	MINE 5205: Coalbed Methane Reservoir Engineering (Key: 7789)	
	Total Discontinued (232) Courses	29
Discontinued	ECE 5486: Networks and Protocols (Key: 3111)	
	ISE 5664: Assessment Strategies in Rehabilitation (Key: 6687)	
	ISE 5864: Problem Formulation and Decomposition (Key: 6698)	
	Total Discontinued Courses	3
	Graduate Programs	
New Degrees		
	Total New Degrees	0
New Majors		
	Total New Majors	0
Revised Majors		
	Total Revised Majors	0
Degree Title Changes		
	Total Degree Title Changes	0
New Certificates		
	Total New Certificates	0
Revised Certificates		
	Total Revised Certificates	0
Discontinued Certificates	Human Factors of Transportation Safety (Key: 503)	
	Total Discontinued Certificates	1
	Total College of Engineering Governance Actions	64
	College of Liberal Arts & Human Sciences	

		Courses	
New	ADV 5324G: Advanced Health Communication Campaigns (Key: 13218)		
	EDCI 5514: Literacy Across the Disciplines in the Elementary and Middle Grades (Key: 13022)		
	EDCI 5864: Reading Specialist Practicum (Key: 13023)		
	EDCI 6164: Global Citizenship Education (Key: 11272)		
	EDHE 5364: Social Justice Education (Key: 11196)		
	EDHE 6934: Professional Seminar in Higher Education (Key: 11197)		
	ENGL 5604: Topics in Writing and Communication (Key: 11286)		
	ENGL 5684: Communicating Scientific Information (Key: 12994)		
	ENGL 5694: Introduction to Technical and Scientific Communication (Key: 12995)		
	ENGL 5754: Editing a Literary Journal I (Key: 13006)		
	ENGL 5764: Editing a Literary Journal II (Key: 13007)		
	ENGL 5784: Foundations of Editing & Publishing (Key: 13005)		
	ENGL 6664: Small Press Publishing (Key: 13008)		
	Total New Courses	13	
Revised	ASPT 6004: Topics Interdisciplinary Perspectives in Soc, Pol, Eth, and Cul Thought (Key: 1108)		
	ASPT 6104: Interdisciplinary Perspectives in Methodology (Key: 1111)		
	ASPT 6204: Topics of Interdisciplinary Frameworks in Soc, Pol, Eth and Cul Thought (Key: 1113)		
	Total Revised Courses	3	
Discontinued	EDHL 5604 PHS 5214 HNFE 5684: Program Development in Health Education (Key: 3838)		
	Total Discontinued Courses	1	
Discontinued (232)	EDCO 5604: Graduate Seminar in Education (Key: 3652)		
	EDRE 6654: Mult Stat App Ed Prob (Key: 3967)		
	EDRE 6754: Advanced Item Response Theory (Key: 3976)		
	ENGL 5514: American Literature: Later 19th Century (Key: 4408)		
	FL 5124: Foreign Language Translation (Key: 4875)		
	HD 5444: Clinical Marriage and Family Therapy II (Key: 5784)		
	HD 5454: Clinical Marriage and Family Therapy III (Key: 5785)		
	HD 5744: Special Topics in Marriage and Family Therapy (Key: 5800)		
	PHIL 5506: Symbolic Logic (Key: 8629)		
	PHIL 5604G: Intermediate Philosophy of Biology (Key: 8630)		
	PHIL 5614G: Intermediate Philosophy of Science (Key: 8631)		
	PR 5714: Corporate Communication for Business Managers (Key: 8926)		
	PSCI 6444: Topics in Environ Politics (Key: 9149)		
	PAPA 6664 STS 6664: Adv Top Sci Tech Pol (Key: 8572)		
	SPIA 5024: Intro Pub Nonprofit Fin Mgt (Key: 9756)		
	STS 6234: Adv Top Sci Tech Med (Key: 9983)		
	STS 6664 PAPA 6664: Adv Top Sci Tech Pol (Key: 9997)		

	STS 6674: Alt Perspec ST&M (Key: 9998)	
	WGS 6004: Topics in Women’s & Gender Studies (Key: 10710)	
	Total Discontinued (232) Courses	19
	Graduate Programs	
New Degrees	MARED: Master of Arts in Reading and Literacy Education (Key: 520)	
	Total New Degrees	1
Discontinued Degrees		
	Total Discontinued Degrees	0
New Majors		
	Total New Majors	0
Revised Certificates	Public History (Key: 478)	
	Revised Certificates	1
Degree Title Changes		
	Total Degree Title Changes	0
New Certificates	Publishing (Key: 517)	
	Technical and Scientific Communication (Key: 450)	
	Total New Certificates	2
Discontinued Certificates	Economic Risk and Global Inequality (Key: 534)	
	Leadership for An Aging Society (Key: 529)	
	Total Discontinued Certificates	2
	Total College of Liberal Arts & Human Sciences Governance Actions	42
College of Natural Resources and Environment		
	Courses	
New	FREC 5184: Research Methods and Synthesis in Forest Resources and Environmental Con (Key: 13091)	
	GEOG 5094G: Advanced Generative AI Applications in Social Science (Key: 11243)	
	GEOG 5184G: Advanced Health Applications of Geospatial Techniques (Key: 11271)	
	GEOG 5304G: Advanced Geospatial Analysis of Mobility (Key: 11217)	
	NR 5154: Environmental Risk and Rationality (Key: 11231)	
	NR 5164: Circular Economy (Key: 11227)	
	NR 5254: Water and Marine Policy (Key: 11228)	
	NR 5804: Sustainable Purchasing and Supply Chains (Key: 11230)	
	SBIO 5164G: Advanced Sustainability Performance and Assessments (Key: 11148)	
	Total New Courses	9
Revised		
	Total Revised Courses	0
Discontinued		

		Total Discontinued Courses	0
Discontinued (232)	FREC 5134: Environmental Conflict Management (Key: 5133)		
	FREC 5214: Advanced Forest Inventory (Key: 5138)		
	SBIO 5224: Quantitative Wood Anatomy (Key: 9530)		
		Total Discontinued (232) Courses	3
		Total College of Natural Resources and Environment Governance Actions	12
		College of Science	
		Courses	
New	CHEM 5024G: Advanced Chemistry Writing (Key: 13187)		
	CHEM 5454: Photochemistry (Key: 11316)		
	CHEM 5564: Chemical Biology (Key: 11219)		
	CHEM 5624G: Advanced Materials Chemistry in Energy Sciences (Key: 13030)		
	ECON 5904: Graduate Instructor Workshop for Introductory College Economics (Key: 13044)		
	GEOS 5054: Seminars in Geosciences (Key: 11238)		
	GEOS 6804: Advanced Topics in Surface Processes and Hydrology (Key: 11241)		
	NEUR 5774: Innovation in Neuroscience Seminar (Key: 11339)		
	PHYS 5774G: Advanced Physics of Galaxies (Key: 13101)		
	PSYC 5104: Seminar in Organizational Psychology (Key: 11283)		
	PSYC 5524: Adolescent Development: From a Bio-Psycho-Socio-Spiritual Perspective (Key: 13068)		
		Total New Courses	11
Revised	ADS 5064: Foundations of Data Science (Key: 204)		
	ADS 5224: Communication in Team-based Data Science (Key: 205)		
	CHEM 5524G: Advanced Identification of Organic Compounds (Key: 2302)		
	CHEM 6004: Career Preparation for Chemists (Key: 11210)		
	GEOS 5714G: Advanced Volcanic Processes (Key: 5565)		
	NEUR 5014: Fundamentals of Cellular & Molecular Neuroscience (Key: 8429)		
	STAT 5525 ADS 5525: Statistical Learning (Key: 9868)		
	STAT 5526 ADS 5526: Statistical Learning (Key: 9869)		
		Total Revised Courses	8
Discontinued	CHEM 6504: Chemistry of Natural Products (Key: 2324)		
		Total Discontinued Courses	1
Discontinued (232)	BIOL 5404: Neuroethology (Key: 1466)		
	GEOS 5754: Fluids in the Earth’s Crust (Key: 5568)		
	GEOS 5814: Numerical Modeling of Groundwater (Key: 5571)		
	MATH 5236: Complex Analysis (Key: 7108)		
	MATH 5246: Differential Equations (Key: 7111)		

	PHS 5914: Practicum in Public Health (Key: 8689)	
	Total Discontinued (232) Courses	6
Discontinued Degrees	Master of Arts in Data Analysis and Applied Statistics (Key: 471)	
	Total Discontinued Degrees	1
New Degrees	MSDS: Master of Science in Data Science (Key: 543)	
	Total New Degrees	1
Revised Degrees	MS: Geography (Key: 497)	
	Total Revised Degrees	1
	Total College of Science Governance Actions	29
Virginia-Maryland Regional College of Veterinary Medicine		
	Courses	
New		
	Total New Courses	0
Revised		
	Total Revised Courses	0
Discontinued	PHS 5214: Program Development in Health Education (Key: 8669)	
	Total Discontinued Courses	1
Discontinued (232)	BMVS 5124: Reproductive Pathology (Key: 1707)	
	BMVS 5574: Advanced Poultry Diseases (Key: 1742)	
	BMVS 5704: Veterinary Cytopathology (Key: 1750)	
	BMVS 6114: Neurogenesis in Developing Disease Brain (Key: 1771)	
	Total Discontinued (232) Courses	4
	Total Virginia-Maryland Regional College of Veterinary Medicine Governance Actions	5
Virginia Tech Carilion School of Medicine		
	Courses	
New	MED 9081: Integrated Foundational Sciences 2 (Key: 11211)	
	MED 9082: Integrated Foundational Sciences 3 (Key: 13206)	
	MED 9084: Research & Inquiry 2 (Key: 11212)	
	MED 9085: Research & Inquiry 3 (Key: 13203)	
	MED 9087: Health Systems Science and Interprofessional Practice 2 (Key: 11213)	
	MED 9088: Health Systems Science and Interprofessional Practice 3 (Key: 13205)	
	MED 9106: Wilderness Medicine (Key: 7397)	
	MED 9704: Geriatric Psychiatry (Key: 7461)	
	MED 9405: Elective - Headache Medicine (Key: 13186)	
	MED 9616: Acting Internship in Pediatric Outpatient (Key: 13184)	

	MED 9820: Exploring Health Systems Science: Enhancing Problem-Solving and Decision (Key: 11199)	
	MED 9G18: International Endocrine Elective - Moldova (Key: 11164)	
	MED 9G19: An Introduction to Rural Health Systems (Key: 11278)	
	MED 9G20: Global Health Elective - Surgery Rotation at Mzuzu Central Hosp, Malawi (Key: 13013)	
	MED 9G21: GHE - Surgery Rotation at Shankara Cancer Hospital, India (Key: 13012)	
	MED 9P10: Elective - Clinical Medical Ethics (Key: 13180)	
	Total New Courses	16
Revised		
	Total Revised Courses	0
Discontinued		
	Total Discontinued Courses	0
Discontinued (232)		
	Total Discontinued (232) Courses	0
	Total Virginia Tech Carilion School of Medicine Governance Actions	16
	Summary of Graduate Governance Actions	
	New Courses	81
	Revised Courses	31
	Discontinued (Upon Approval of New Course) Courses	7
	Discontinued (PPM No. 232, Policy on Untaught (>3 years) Courses from Graduate School Catalog - Report	77
	Subtotal Courses	196
	New Degrees	2
	Revised Degrees	1
	Discontinued Degrees	1
	New Majors	0
	Revised Majors	1
	New Major Concentrations/Tracks	1
	Revised Major Concentrations/Tracks	0
	Discontinued Major Concentrations/Tracks	0
	Degree Title Changes	0
	New Certificates	2
	Revised Certificates	1
	Discontinued Certificates	3
	Subtotal Graduate Programs	12
	Total Graduate School Governance Actions	208