		Graduate School Governance Actions	
		2020-2021 Academic Year	
Graduate School			
Courses			
New			
	GRAD 5034 Interdisciplinary Foundations of Disaster Resilience (CM-6830)		
	1	**Total New Courses**	**1**
Graduate Programs			
Revised Major Concentrations/Tracks			
	Rename Major Concentration/Track: Tissue Engineering and Reparative Medicine (TERM) effective for student date of entry under GR Catalog 2021-2022; first term and year to enroll: Summer 2021 (CM-5548)		
	Rename Major Concentration/Track: Public Health and Implementation Science (PHIM) effective for student date of entry under GR Catalog 2021-2022; first term and year to enroll: Summer 2021 (CM-5551)		
	2	**Total Revised Major Concentrations/Tracks**	**2**
Discontinued Major Concentrations/Tracks			
	Development, Aging, and Repair (DAR) effective Spring 2021 (CM-5548)		
	Health Implementation and Science (HISC) effective Spring 2021 (CM-5551)		
	2	**Total Discontinued Major Concentrations/Tracks**	**2**
New Certificates			
	0	**Total New Certificates**	**0**
	5	**Total Graduate School Governance Actions**	**5**
College of Agriculture and Life Sciences			
Courses			
New			
	APSC 5154 Behavioral Biology of Domesticated Animals (CM-6094)		
	HNFE 5174 Nutrition for Sport & Exercise (CM-6072)		
	ALCE 5564 International Agriculture & Diplomacy (CM-6093)		
	APSC 5134 Applied Behavior Analysis for Animal Behaviorists (CM-6096)		
	AAEC 5484 (STAT 5484) Applied Economic Forecasting (CM-6265)		
	APSC 5184 Research Methods for Animal Behaviorists (CM-6268)		
	DASC 6274 Critical Thinking in Bovine Physiology and Metabolism (CM-6317)		
	APSC 5234 Applications of Applied Animal Behavior (CM-6269)		
	AAEC 5044 Applied Macroeconomics (CM-6702)		

	CSES 5064G Advanced Soil Microbiology (CM-6704)		
	APSC 5604 Writing Effective Fellowship Grant Applications (CM-6703)		
	APSC 5264 Animal Cognition (CM-6803)		
	ENT 5024 Understanding Urban and Structural Entomology (CM-6804)		
		Total New Courses	**13**
Revised			
	ENT 6164 Insecticide Toxicology (CM-6068)		
	HNFE 5304 Principles of Dietetics and Nutrition Practice (CM-6106)		
	CSES 5634 Soil Chemistry (CM-6092)		
		Total Revised Courses	**3**
Discontinued			
	HORT 5064G Advanced Soil Microbiology (CM-6704)		
		Total Discontinued Courses	**1**
Discontinued (232)			
	ALCE 5764: Externship in ALCE		
	ALS 5504: Quantitative Genetics Applications of Matrix Algebra		
	HNFE 5674: Principles of Community Health Education		
	HORT 5534: Advanced Plant Physiology and Metabolism II		
		Total Discontinued (232) Courses	**4**
Tabled			
		Total Tabled Courses	**0**
Revised Degrees			
	Master of Science (MS), Major: Agricultural and Applied Economics (AAEC) (Revised/Adding Online Format) Effective for student date of entry under GR Catalog 2021-2022 (CM-6472)		
		Total Revised Degrees	**1**
		Total College of Agriculture and Life Sciences Governance Actions	**22**

College of Architecture and Urban Studies

Courses

New			
	EDP 5284 Advanced Practice-Based Research Methods (Previously tabled 1/23/20) (CM-5557)		
	EDP 5314 Transformative Triggers in Practice-Based Research (CM-6365)		
	EDP 5324 Tacit Knowledge in Practice-Based Research (CM-6367)		
	EDP 5334 Creativity in Practice-Based Research (CM-6368)		
	EDP 5344 Ecologies of Learning in Practice-Based Research (CM-6359)		
	LAR 5124 Graduate Landscape Architecture ResilientSite Design (previously tabled on 3/25/21) (CM-6539)		

	LAR 5084 Graduate Landscape Architecture Site Planning and Design (previously tabled on 3/25/21) (CM-6538)		
	Total New Courses	**7**	
Discontinued			
	Total Discontinued Courses	**0**	
Discontinued (232)			
	BC 5064: Innovation in Construction		
	GIA 5534: Regionalism and Political Development		
	GIA 6224: Competing Conceptions of the Third Sector		
	UAP 5454: Nonprofit Organization & Management		
	Total Discontinued (232) Courses	**4**	
Tabled			
	EDP 5284 Advanced Practice-Based Research Methods (tabled on 1/23/20) (CM-5557)		
	LAR 5124 Graduate Landscape Architecture ResilientSite Design (tabled on 3/25/21) (CM-6539)		
	LAR 5084 Graduate Landscape Architecture Site Planning and Design (tabled on 3/25/21) (CM-6538)		
	Total Tabled Courses	**3**	
Graduate Programs			
New Certificates			
	Science, Technology, and Engineering in Policy (STEP) Effective for students entering under GR Catalog 2020-2021; first term and year to enroll: Spring 2021; first term and year to graduate: Spring 2021 (CM-6035)		
	Urban Planning Analytics (UPAC) Effective for student date of entry under GR Catalog 2021-2022. First term and year to enroll: Summer 2021, First term and year to graduate: Fall 2021 (CM-6371)		
	Transportation Planning and Policy (TPPC) Effective for student date of entry under GR Catalog 2021-2022; first term and year to enroll: Summer 2021, first term and year to graduate: Fall 2021 (CM-6378)		
	Total New Certificates	**3**	
Revised Certificates			
	Local Government Management (LGMC) Effective for student date of entry under GR Catalog 2020-2021 (CM-6031)		
	Total Revised Certificates	**1**	
Tabled Certificates			
	Total Tabled Certificates	**0**	
	Total College of Architecture and Urban Studies Governance Actions	**18**	

Pamplin College of Business

Courses

New

MGT 6744 Management Research Practicum (CM-5604)	
MKTG 6254 Bayesian Methods and Applications in Business Research (CM-5629)	
MKTG 6264 Applied Multivariate Statistics for Business Research (CM-5630)	

	MGT 5864 Creativity & Design Thinking for Executives (CM-6055)		
	BIT 6424 Theory Building Seminar in Business Information Technology (CM-6782)		
		Total New Courses	**5**
Revised			
		Total Revised Courses	**0**
Tabled			
		Total Tabled Courses	**0**
Deferred			
		Total Deferred Courses	**0**
Discontinued			
		Total Discontinued Courses	**0**
Discontinued (232)			
	MKTG 5254: Product Strategy		
	MKTG 6404: Advanced Quantitative Marketing Methods		
	MKTG 6444: Seminar in Marketing & Society		
		Total Discontinued (232) Courses	**3**
Revised Degrees			
	Master in Business Administration (MBA), Major: Business Administration (BAD) (Revised/Adding Online Format) Effective for student date of entry under GR Catalog 2021-2022 (CM-6619)		
		Total Revised Degrees	**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	**9**

College of Engineering

Courses

New			
	AOE 6234 Advanced Orbital Mechanics (CM-5536)		
	CEE 5454 Blast Resistant Design of Structures (CM-6050)		
	AOE 5164 Fluid-Structure Interaction (CM-6041)		
	ME 5794 Optimization Techniques in Engineering (CM-6052)		
	CEE 5484 Concrete Microstructure (CM-6137)		
	ECE 5805-5806 Graduate Design Project and Report (CM-6043)		

		AOE 5784 Model-Based Estimation and Kalman Filtering (CM-6042)	
		CEE 5390 Advanced Urban Water Sustainability (CM-6207)	
		ECE 5494 Innovation Pathways in Artificial Intelligence and Machine Learning (CM-6134)	
		ISE 5624 Human Factors Research Design (CM-6138)	
		AOE 5404 Numerical Methods for Aerospace and Ocean Engineering (CM-6149)	
		CEE 5034 Smart Sustainable Infrastructure (CM-6374)	
		ECE 5544 (CS 5544) Compiler Optimizations (CM-6350)	
		ECE 5224 Principles of Electronics Packaging (previously tabled on 1/28/21) (CM-6354)	
		ME 6504 Nonlinear Vibrations and Applications (previously tabled on 1/28/21) (CM-6051)	
		BSE 5324 Applied Fluvial Geomorphology (CM-6018)	
		CEE 5510 Thermal and Energy Geotechnics(CM-6375)	
		CEE 5020 Infrastructure Policy (CM-6373)	
		ME 5784 Advanced Industrial Internet of Things Platform (CM-6150)	
		NSEG 5104 Applied Mathematics for Nuclear Engineers (CM-6827)	
		ISE 5854 Mission Engineering I (CM-6820)	
		ISE 5864 Problem Formulation and Decomposition (CM-6817)	
		Total New Courses	**22**
Revised			
		ISE 5244 Facilities Planning and Material Handling (CM-6053)	
		ISE 5314 Industrial Robotics (CM-6814)	
		ISE 5104 Operations Research (CM-6818)	
		Total Revised Courses	**3**
Discontinued (232)			
		CEE 5124: Fundamentals of Environmental Toxicology	
		CEE 5644: Transportation Systems Planning	
		ECE 6424: PGMs and Structured Prediction	
		ISE 6054: Decision Theory	
		ME 5254: Fuel Cell Systems	
		ME 5684: Unified System Dynamics	
		MINE 5104: Modeling and Monitoring the Behavior of Mining Systems	
		Total Discontinued (232) Courses	**7**
Discontinued			
		ISE 5615-5616 Human Factors Research Design (CM-6138)	
		Total Discontinued Courses	**1**
Tabled			
		BMES 5234 Advanced Vehicle Safety Systems (tabled on 9/24/20) (CM-5753)	
		ECE 5224 Principles of Electronics Packaging (tabled on 1/28/21) (CM-6354)	

	ME 6504 Nonlinear Vibrations and Applications (tabled on 1/28/21) (CM-6051)		
	Total Tabled Courses	**3**	
Graduate Programs			
New Degrees			
	Total New Degrees	**0**	
New Majors			
	Total New Majors	**0**	
Revised Majors			
	Total Revised Majors	**0**	
Tabled			
	Total Tabled Majors	**0**	
Degree Title Changes			
	Total Degree Title Changes	**0**	
New Certificates			
	Mission Engineering (MENC) effective for student date of entry under GR Catalog 2021-2022; first term and year to enroll: Fall 2021, first term and year to graduate: Spring 2022 (CM-6831)		
	Total New Certificates	**1**	
Revised Certificates			
	Engineering Education (ENGC) (Revised/Change in Credit Hours) Effective for students entering under Graduate Catalog 2021-2022 (CM-6000)		
	Total Revised Certificates	**1**	
Discontinued Certificates			
	Urban Hydrology and Stormwater Management (UHSC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6869)		
	Traffic Control and Operations (TCOC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6870)		
	Transportation Systems Engineering (TSEC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6871)		
	Air Transportation Systems (ATRC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and 4 year to graduate: Spring 2021 (CM-6872)		
	Treatment Process Engineering (TPEC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6873)		
	Water Quality Management (WQMC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6874)		
	Civil Infrastructure Systems (IEC) effective for student date of entry under GR Catalog 2021-2022; last term and year to enroll: Fall 2020, last term and year to graduate: Spring 2021 (CM-6875)		
	Total Discontinued Certificates	**7**	
	Total College of Engineering Governance Actions	**45**	

College of Liberal Arts & Human Sciences		
Courses		
New		
	PSCI 5114 (ASPT 5114) Critical Research Design (CM-6006)	
	STS 5154 (SPIA 5154) (PSCI 5154) Science, Technology, and Engineering in Policy Seminar (CM-6039)	
	STS 5404 (HIST 5404) Science in Modern America (CM-5643)	
	HIST 5194 Topics in African American History (CM-6355)	
	EDCI 5314 Teaching Choral for Instrumentalists (CM-6584)	
	EDCI 5014 The 21st Century Classroom: Elementary Science Methods (PreK-6) (CM-6770)	
	EDCI 5024 The 21st Century Classroom: Elementary Math Methods (PreK-6) (CM-6771)	
	EDCI 5034 The 21st Century Classroom: Literacy Methods in the Elem Classroom (PreK-6) (CM-6772)	
	EDCI 5044 The 21st Century Classroom: Content Literacy in a Global Society (PreK-6) (CM-6774)	
	EDCI 5054 The 21st Century Classroom: Elem Curriculum and Instruction (PreK-6) (CM-6773)	
	RLCL 5014 (ASPT 5014) Religion and the Public Sphere (CM-6777)	
	ENGL 5214 Topics in Race and Pre-Modern Literature (CM-6794)	
	EDCI 6444 Theoretical Frameworks in Education Research (CM-6775)	
	ENGL 5554 Topics in Race, Empire, & Postcoloniality (CM-6795)	
	EDCO 6434 Researcher Development in Counselor Education (CM-6776)	
	Total New Courses	**15**
Revised		
	HD 5324 Marriage and Family Relationships (CM-6005)	
	HD 5224 Child Development in the Family Context (CM-6004)	
	EDCO 6484 Leadership and Advocacy Issues in Counselor Education (CM-6124)	
	HD 5104 Adult Development and Aging (CM-6123)	
	ENGL 5004 Theory & Practice in University Writing Instruction (CM-6313)	
	ENGL 5624 Cultural Rhetorics (CM-6796)	
	ENGL 5674 Rhetoric of Science, Technology, and Medicine (CM-6797)	
	Total Revised Courses	**7**
Discontinued		
	EDCO 6454 Advanced Study in Career Development and Counseling Appraisal (CM-6776)	
	Total Discontinued Courses	**1**
Discontinued (232)		
	AFST 5354: Topics in Africana Studies	
	AFST 6224: Africana Perspectives on American Education	
	ALHR 5514: Adult Learning	
	ALHR 5524: The Programming Process in Adult Learning	
	ALHR 5584: Facilitating Adult Learning	
	EDCO 6454: Advanced Study in Career Development and Counseling Appraisal	

	EDEL 5064: Contemporary Issues in Special Education		
	EDHE 7704: Field Studies in Education		
	PHIL 6314: History of the Philosophy of Science		
	RLCL 5114: The Bible & US Public Schools		
	SPAN 5104: Advanced Applied Grammar and Style		
	STS 6334: Advanced Topics in Philosophy of Science		
	STS 6554: Energy Policy Hist & Contemp		
	WGS 5114: Foundations of Women's & Gender Studies		
		Total Discontinued (232) Courses	**14**
Tabled Courses			
		Total Tabled Courses	**0**
Graduate Programs			
New Degrees			
		Total New Degrees	**0**
Discontinued Degrees			
	EdD/PhD in Career and Technical Education Last term and year to enroll: Fall 2014; last term and year to graduate: Fall 2020. Approved by GCC on 3/26/2015 and CGPSP on 4/1/2015 (CM-2028) (For Information Only on 2/11/21 GCC Report.)		
	Doctor of Philosophy (PhD), Major: Educational Research and Evaluation (EDRE), Last term to enroll: Spring 2021, Last term to graduate: Fall 2026 (CM-6778)		
		Total Discontinued Degrees	**2**
New Majors			
		Total New Majors	**0**
Revised Majors			
		Total Revised Majors	**0**
Tabled Majors			
		Total Tabled Majors	**0**
Degree Title Changes			
		Total Degree Title Changes	**0**
New Certificates			
		Total New Certificates	**0**
Discontinued Certificates			
	ASPECT – Alliance for Social, Political, Ethical and Cultural Thought (ASPC) Effective for student date of entry under GR Catalog 2020-2021. Last term and year to enroll: Spring 2020, last term and year to graduate: Spring 2021 (CM-6129)		
		Total Discontinued Certificates	**1**
		Total College of Liberal Arts & Human Sciences Governance Actions	**40**
College of Natural Resources and Environment			
Courses			
New			

		WATR 6004 Water Quality in Aquatic Ecosystems (CM-6040)		
		GEOG 5404G Advanced Geovisualization (CM-5647)		
		GEOG 5414G Advanced Climate Change and Societal Impacts (CM-6010)		
		FREC 5464G (WATR 5464G) Advanced Water Resource Policy and Economics (CM-6655)		
		FREC 5244G (WATR 5244G) Advanced Hydroinformatics (CM-6466)		
		WATR 5004 Seminar in Water Science and Society (CM-6370)		
		ES 5004 Environmental Security Fundamentals (CM-6847)		
		ES 5104 Environmental Security Causes and Trends (CM-6849)		
		FREC 5024G Advanced Forest Resources Management and Business (CM-6801)		
		Total New Courses	**9**	
	Revised			
		Total Revised Courses	**0**	
	Discontinued			
		Total Discontinued Courses	**0**	
	Discontinued (232)			
		FREC 5114: Geospatial Programming and Analytical Methods		
		FREC 5264: GIS Applications in Natural Resource Management		
		FREC 5384: Advanced Forested Wetlands		
		NR 5044: Environmental Conservation and the American Landscape		
		NR 5684: Foundations of Federal Land Management		
		NR 5714: Ecosystem Management		
		Total Discontinued (232) Courses	**6**	
	Tabled			
		Total Tabled Courses	**0**	
		Total College of Natural Resources and Environment Governance Actions	**15**	

College of Science

Courses

	New			
		NEUR 5844 Computational Neuroscience (CM-6081)		
		CHEM 5134 Introduction to Single-Crystal X-ray Diffraction (CM-6310)		
		ECON 6704 Frontiers of Macroeconomic Research (previously tabled on 1/28/21) (CM-6308)		
		STAT 5154 Statistical Computing for Data Analytics (CM-6504)		
		GEOS 5314 Advanced Coastal Hazards (CM-6411)		
		STAT 6554 Advanced Statistical Computing (CM-6503)		
		Total New Courses	**6**	
	Revised			
		Total Revised Courses	**0**	

Discontinued			
		Total Discontinued Courses	0
Discontinued (232)			
	BIOL 5154: Exercises in Grantsmanship		
	STAT 5304: Statistical Computing		
		Total Discontinued (232) Courses	2
Tabled			
	ECON 6704 Frontiers of Macroeconomic Research (tabled on 1/28/21) (CM-6308)		
		Total Tabled Courses	1
Discontinued Degrees			
	Master of Science (MS) Major: Biomedical Technology Development and Management (BTDM) Effective for student date of entry under GR Catalog 2020-2021. Last term and year to enroll: Spring 2017, last term and year to graduate: Spring 2021 (CM-6143)		
		Total Discontinued Degrees	1
Revised Majors			
	Data Analytics and Applied Statistics (DAAS) under Master of Arts in Data Analytics and Applied Statistics (MADAS) (CM-6658)		
		Total Revised Majors	1
New Certificates			
		Total New Certificates	0
		Total College of Science Governance Actions	11

Virginia-Maryland Regional College of Veterinary Medicine

Courses			
New			
	PHS 5704 (CEE 5704) Drinking Water & Health (CM-6323)		
	VM 8020 Equine Diagnostic Techniques for Digestive, Nervous & Integumentary System (CM-6328)		
	VM 9224 Pocket Pet Medicine (CM-6322)		
	VM 8834 Food Animal Reproduction Techniques (CM-6867)		
	VM 8060 Compassionate End of Life Care (CM-6868)		
		Total New Courses	5
Revised			
	VM 8214 Small Animal Medicine (CM-6321)		
	VM 8804 Small Animal Physical Rehabilitation and Complementary Medicine (CM-6859)		
		Total Revised Courses	2
Discontinued			
		Total Discontinued Courses	0
Discontinued (232)			
	BMVS 5144: Oncology Pathology		
	PHS 5304: Zoonoses and Infectious Diseases Common to Humans and Animals		

Total Discontinued (232) Courses		**2**
Tabled		
Total Tabled Courses		**0**
Total Virginia-Maryland Regional College of Veterinary Medicine Governance Actions		**9**

Virginia Tech Carilion School of Medicine

Courses

New		
Total New Courses		**0**
Revised		
Total Revised Courses		**0**
Discontinued		
Total Discontinued Courses		**0**
Discontinued (232)		
Total Discontinued (232) Courses		**0**
Tabled		
Total Tabled Courses		**0**
Total Virginia Tech Carilion School of Medicine Governance Actions		**0**

Summary of Graduate Governance Actions

Courses

New Courses		**83**
Revised Courses		**15**
Discontinued (Upon Approval of New Course) Courses		**3**
Discontinued (PPM No. 232, Policy on Untaught (>3 years) Courses from Graduate School Catalog - Report		**42**
Tabled Courses		**7**
Subtotal Courses		**150**

Graduate Programs

New Degrees		**0**
Revised Degrees		**2**
Discontinued Degrees		**3**
New Majors		**0**
Revised Majors		**1**
Revised Major Concentrations/Tracks		**2**
Discontinued Major Concentrations/Tracks		**2**
Tabled Certificate		**0**
Degree Title Changes		**0**
New Certificates		**4**

		Revised Certificates	2
		Discontinued Certificates	8
		Subtotal Graduate Programs	24
	174	Total Graduate School Governance Actions	174