UNOFFICIAL SEMESTER BY SEMESTER GUIDE
Please use this in conjunction with the catalog and DARS.
You do not have to follow this plan exactly. This is a sample plan.

College of Natural Resources and Environment
Department of Forest Resources and Environmental Conservation
Water: Resources, Policy, and Management Major
This guide is for students with a 2025-2026 academic year date of entry.

Fall Semester			Spring Semester	
First Year				
Pathways Concept 1F Course[1]	3		Pathways Concept 1F Course[1]	3
WATR 2004 Water, Environment, & Society	3		BIOL 1106 Principles of Biology (Pathways 4)	3
GEOG 1524 Introduction to Earth's Climate	3		BIOL 1116 Principles of Biology Lab	1
MATH 1025 Elementary Calculus **or** MATH 1225 Calculus of a Single Variable (Pathways 5F)	3-4		MATH 1026 Elementary Calculus **or** MATH 1226 Calculus of a Single Variable (Pathways 5F)	3-4
Pathways Concept 6A Course	3		AAEC 1005 Econ. of Food & Fiber **or** ECON 2005 Principles of Economics (Pathways 3)	3
Free elective (*Suggested*: WATR 1984 First Year in Water)	1		Pathways Concept 2 Course	3
	16-17			**16-17**
Sophomore Year				
CHEM 1035 General Chemistry (Pathways 4)	3		PHYS 2205 General Physics	3
CHEM 1045 General Chemistry Lab	1		PHYS 2215 General Physics Lab	1
Water Restricted Elective Course[2]	3		Water Restricted Elective Course[2]	3
Pathways Concept 3 Course	3		Water Policy Specialization Course[3]	3
Pathways Concept 7 Course	3		Geospatial Technology Course[4]	3
Free Elective (*Suggested: CHEM 1034 Chem. Recitation*)	1[5]		Pathways Concept 2 Course	3
	14			**16**
Junior Year				
WATR 3104 Principles of Watershed Hydrology	3		WATR 3754 Watersheds & Water Quality Monitoring	3
ENSC 3604 Fundamentals of Environmental Science	3		Water Science Course[7]	3
Water Law & Planning Course[6]	3		Water Policy Course[3]	3
Water Science Specialization Course[7]	3		STAT 3615 Biological Statistics (Pathways Concept 5A)	3
Water Policy Specialization Course[3]	3		ENGL 2784 Intro. to Professional & Technical Writing **or** ENGL 3764 Technical Writing (Pathways Concept 1A)	3
	15			**15**
Senior Year				
GEOG 4134 Issues & Ethics in Water Resources	3		WATR 4614 Watershed Assessment, Mgt, & Policy	2
WATR 4464 Water Resources Policy & Economics	3		WATR 4244 Hydroinformatics	3
Water Science Specialization Course[7]	3		Water Science Specialization Course[7]	3
Water Policy Specialization Course[3]	3		Pathways Concept 6D Course	3
Free Elective	3		Free Elective	3
	15			**15**
			Total credits required for graduation = 120	

Notes: See the Timetable of Classes in HokieSPA and CNRE course offerings guide for course availability. Some classes have prerequisites. Consult with your advisor about course sequencing.

[1] Students should choose COMM 1015/1016 Communication Skills or ENGL 1105/1106 First-Year Writing.
[2] Students complete 6 credits of Water Restricted Elective courses. See catalog for course options.
[3] Students complete 12 credits of Water Policy courses; 9 credits from a single specialization. See catalog for course options.
[4] Students choose course from approved list: FREC 4114, FREC 4214, GEOG 2084, GEOG/GEOS 4354.
[5] The Chemistry Recitation 1 credit does **not** apply towards the 120 credit minimum required for graduation
[6] Students choose course from approved list: AAEC 3314, UAP 3354, UAP 4344, UAP 4374. See catalog for details.
[7] Students complete 12 credits of Water Science courses; 9 credits from a single specialization. See catalog for course options.

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Pathways Requirements (45 Credits)

Pathways Concept 1: Discourse – 9 credits required

6 Credit Hours of Approved Foundational

- □ Choose Concept 1f Course[8] (3 credits)
- □ Choose Concept 1f Course (3 credits)

3 Credit Hours of Advanced/Applied

- □ Choose ENGL 2844 Introduction to Professional Writing (3 credits) **or** ENGL 3764 Technical Writing (3 credits)

Pathways Concept 2: Critical Thinking in the Humanities – 6 credits required

- □ Choose Concept 2 Course (3 credits)
- □ Choose Concept 2 Course (3 credits)

Pathways Concept 3: Reasoning in the Social Sciences – 6 credits required

- □ AAEC 1005 Economics of Food & Fiber Systems **or** ECON 2005 Principles of Economics (3 credits)
- □ Choose Concept 3 Course (3 credits)

Pathways Concept 4: Reasoning in the Natural Sciences – 6 credits required

- □ BIOL 1106 Principles of Biology (3 credits)
- □ CHEM 1035 General Chemistry (3 credits)

Pathways Concept 5: Quantitative and Computational Thinking – 9 credits required

6 Credit Hours of Approved Foundational

- □ MATH 1025 Elementary Calculus (3 credits) **or** MATH 1225 Calculus of a Single Variable (4 credits)
- □ MATH 1026 Elementary Calculus (3 credits) **or** MATH 1226 Calculus of a Single Variable (4 credits)

3 Credit Hours of Approved Advanced/Applied

- □ STAT 3615 Biological Statistics (3 credits)[9]

Pathways Concept 6: Critique and Practice in Design and the Arts – 6 credits required

6 Credit Hours from Approved Pathways Courses: 3 Design and 3 Art Credits

- □ Choose DESIGN Course (3 credits)
- □ Choose ARTS Course (3 credits)

Pathways Concept 7: Critical Analysis of Identity and Equity in the United States – 3 credits required

- □ Choose Concept 7 Course (3 credits)[10]

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[8]Students should select either COMM 1015/1016 Communication Skills or ENGL 1105/1106 First-Year Writing to have the necessary prerequisites for their Pathways 1a requirement.
[9]STAT 3005 Statistical Methods may substitute for STAT 3615 Biological Statistics.
[10]A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously.

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Course options for WRPM Water Science, Water Policy, and Water Restricted Elective Requirements

- Students should refer to the Water: Resources, Policy, and Management page in the catalog to view course options.
- Students' degree audits will include course options from the catalog for their date of entry. Students are permitted to select course options from the most current catalog year, but must communicate with their CNRE academic advisor about doing so.
- Students should consider course availability when they select timing for restricted elective courses.
- Students should review prerequisites and plan accordingly.
- Some courses exist on multiple lists. When this is the case, taking that course may only count for one requirement area.