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 2024-2025 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, and 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 Elem. Calculus (Pathways 5F)[2]	3		MATH 1026 Elem. Calculus (Pathways 5F)[2]	3
Pathways Concept 6A Course	3		AAEC 1005 Econ. of Food & Fiber (Pathways 3)[3]	3
Free elective (*Suggested*: WATR 1984 First Year in Water)	1		Pathways Concept 2 Course	3
	16			**16**
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[4]	3		Pathways Concept 2 Course	3
Pathways Concept 3 Course	3		Water Restricted Elective Course[4]	3
Pathways Concept 7 Course	3		Water Policy Specialization Course[5]	3
Free Elective (*Suggested: CHEM 1034 Chemistry Recitation*)	1[6]		Geospatial Technology and Informatics Course[7]	3
	14			**16**
Junior Year				
WATR 3104 Principles of Watershed Hydrology	3		STAT 3615 Biological Statistics (Pathways Concept 5A)[8]	3
ENSC 3604 Fundamentals of Environmental Science	3		WATR 4464 Water Resources Policy & Economics	3
Water Law and Planning Course[9]	3		Water Science Specialization Course[10]	3
Water Science Specialization Course[10]	3		Water Policy Course[5]	3
Water Policy Specialization Course[5]	3		ENGL 2784 or ENGL 3764 (Pathways Concept 1A)	3
	15			**15**
Senior Year				
WATR 3754 Watersheds and Water Quality Monitoring	3		WATR 4614 Watershed Assessment, Mgt, & Policy	2
GEOG 4134 Issues & Ethics in Water Resources	3		WATR 4244 Hydroinformatics	3
Water Science Course[10]	3		Water Science Specialization Course[10]	3
Water Policy Specialization Course[5]	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 choose MATH 1025 **or** 1225 and MATH 1026 **or** 1226
[3] Students choose AAEC 1005 **or** ECON 2005
[4] Students complete 6 credits of Water Restricted Elective courses. See catalog for course options.
[5] Students complete 12 credits of Water Policy courses; 9 credits from a single specialization. See catalog for course options.
[6] The Chemistry Recitation 1 credit does not apply towards the 120 credit minimum required for graduation
[7] Students choose course from approved list: FREC 4114, FREC 4214, GEOG 2084, GEOG/GEOS 4354.
[8] STAT 3005 Statistical Methods is an acceptable substitution for STAT 3615.
[9] Students choose course from approved list: AAEC 3314, UAP 3354, UAP 4344, UAP 4374. See catalog for details.
[10] 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[11] (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 was added for Pathways 5a

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)[12]

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[11] 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..

[12] A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously.