## College of Natural Resources and Environment Department of Forest Resources and Environmental Conservation Water: Resources, Policy, and Management Major <br> This guide is for students with a 2023-2024 academic year date of entry.

| Fall Semester |  | Spring Semester |  |
| :---: | :---: | :---: | :---: |
| First Year |  |  |  |
| Pathways Concept 1F Course ${ }^{1}$ | 3 | Pathways Concept 1F Course ${ }^{1}$ | 3 |
| MATH 1025 Elem. Calculus (Pathways 5F) ${ }^{2}$ | 3 | BIOL 1106 Principles of Biology (Pathways 4) | 3 |
| WATR 2004 Water, Environment, and Society | 3 | BIOL 1116 Principles of Biology Lab | 1 |
| Pathways Concept 2 Course | 3 | MATH 1026 Elem. Calculus (Pathways 5F) ${ }^{2}$ | 3 |
| Pathways Concept 3 Course | 3 | AAEC 1005 Econ. of Food \& Fiber (Pathways 3) ${ }^{3}$ | 3 |
|  |  | Pathways Concept 2 Course | 3 |
|  | 15 |  | 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 |
| Pathways Concept 6A Course | 3 | Water Restricted Elective Course ${ }^{4}$ | 3 |
| Water Restricted Elective Course ${ }^{4}$ | 3 | Water Restricted Elective Course ${ }^{4}$ | 3 |
| Water Restricted Elective Course ${ }^{4}$ | 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 |  |  |  |
| ENSC 3604 Fundamentals of Environmental Science | 3 | WATR 3104 Principles of Watershed Hydrology | 3 |
| Water Law and Planning Course ${ }^{8}$ | 3 | WATR 4464 Water Resources Policy \& Economics | 3 |
| Water Science Specialization Course ${ }^{9}$ | 3 | Water Science Specialization Course ${ }^{8}$ | 3 |
| Water Policy Specialization Course ${ }^{5}$ | 3 | Water Policy Course ${ }^{5}$ | 3 |
| ENGL 3534 or ENGL 3764 (Pathways Concept 1A) | 3 | Water Restricted Elective Course ${ }^{4}$ | 3 |
|  | 15 |  | 15 |
| Senior Year |  |  |  |
| WATR 3754 Watersheds and Water Quality Monitoring | 3 | WATR 4614 Watershed Assessment, Mgt, \& Policy | 2 |
| Water Science Course ${ }^{8}$ | 3 | Water Science Specialization Course ${ }^{8}$ | 3 |
| Water Policy Specialization Course ${ }^{5}$ | 3 | Pathways Concept 6D Course | 3 |
| Pathways Concept 7 Course | 3 | Free Elective | 4 |
| Pathways Concept 5A Course | 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.

[^0]```
                                    UNOFFICIAL SEMESTER BY SEMESTER GUIDE
Please use this in conjunction with the official checksheet and DARS.
    You do not have to follow this plan exactly. This is a sample plan.
Pathways Requirements (45 Credits)
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## Pathways Concept 1: Discourse - 9 credits required

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6 Credit Hours of Approved Foundational
\(\square\) Choose Concept 1 f Course \({ }^{10}\) ( 3 credits)
- Choose Concept 1 f Course (3 credits)
3 Credit Hours of Advanced/Applied
- Choose ENGL 3534 Literature and the Environment (3 credits) or ENGL 3764 Technical Writing (3 credits)
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## Pathways Concept 2: Critical Thinking in the Humanities - 6 credits required

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- Choose Concept 2 Course (3 credits)
- Choose Concept 2 Course (3 credits)
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## Pathways Concept 3: Reasoning in the Social Sciences - 6 credits required

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- 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)
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## Pathways Concept 5: Quantitative and Computational Thinking - 9 credits required

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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)
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## 3 Credit Hours of Approved Advanced/Applied

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Pathways 5A (3 credits) Suggested: FREC 4354 Forest Soil and Watershed Management
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## Pathways Concept 6: Critique and Practice in Design and the Arts - 6 credits required

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6 Credit Hours from Approved Pathways Courses: 3 Design and 3 Art Credits
\(\square\) Choose DESIGN Course (3 credits)
- Choose ARTS Course (3 credits)
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## Pathways Concept 7: Critical Analysis of Identity and Equity in the United States - 3 credits required

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\(\square\) Choose Concept 7 Course (3 credits) \({ }^{11}\)
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[^1]
[^0]:    ${ }^{1}$ 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 15 credits of Water Restricted Elective courses. See checksheet for course options.
    ${ }^{5}$ Students complete 12 credits of Water Policy courses; 9 credits from a single specialization. See checksheet 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, FREC/WATR 4244, GEOG 2084, GEOG/GEOS 4354.
    ${ }^{8}$ Students choose course from approved list: AAEC 3314, UAP 3354, UAP 4344, UAP 4374.
    ${ }^{9}$ Students complete 12 credits of Water Science courses; 9 credits from a single specialization. See checksheet for course options.

[^1]:    ${ }^{10}$ 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..
    ${ }^{11}$ A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously.

