Hydrologic Sciences Graduate Program Application

Please complete the following form and email to: hydrogrd@colorado.edu.
Also attach:

1) a letter of intent describing your research interests including which aspect of hydrologic sciences (physical, chemical or biological) you wish to pursue and
2) a copy (official or unofficial) of your undergraduate and graduate transcripts.

Today’s Date ___________________________ Intended Graduation Date ___________________________
Name ___________________________________ Student ID Number _____ - _____ - _________
Email Address ___________________________ Phone Number _________________________________
Home Department _________________________ Faculty Advisor _______________________________

You are required to take 2 Core Courses and 3 electives from the pre-approved list that follows this form**. If you feel another course would be appropriate to your studies, you may include that course here and explain why you are requesting that course in your letter of intent.

Please list the courses to be taken for the certificate program and when they were taken or are planned.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Semester</th>
<th>Year</th>
</tr>
</thead>
</table>
| Hydrologic Sciences Core Courses
| ____________________________ |
| Hydrologic Sciences Elective Courses
| ____________________________ |

** A list of courses is attached to this application, but also visit: https://www.colorado.edu/program/hydrosciences/academics/courses

Master of Science Students, please provide your thesis topic and the Hydrologic Sciences Faculty member that will be serving on your committee, if you have one.

Thesis Topic: _______________________________________
Faculty Committee Member: ___________________________

PhD Students, please provide your dissertation topic and the 2 Hydrologic Sciences Faculty members that will be serving on your committee, also indicate if you are applying for the certificate or the PhD in Hydrologic Sciences

Dissertation Topic: _______________________________________
Faculty Committee Members: ___________________________ and ___________________________
Certificate ________ or PhD Program ________

Student’s Signature ___________________________ Faculty Advisor’s Signature ___________________________

For more information, visit http://hydrosciences.colorado.edu or email hydrogrd@colorado.edu
List** of Courses for the Hydrologic Sciences Graduate Certificate and PhD Programs

Required Courses: a total of 5 courses are requires (two core + three electives)

Core Courses (Choose two, but at least one must be from List A)

<table>
<thead>
<tr>
<th>List A</th>
<th>List B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 5050 (3) Atmospheric Thermodynamics and Dynamics</td>
<td>ATOC 5051 (3) Introduction to Physical Oceanography</td>
</tr>
<tr>
<td>ATOC 5060 (3) Dynamics of the Atmosphere and Oceans</td>
<td>ATOC 5061 (3) Advanced Ocean Dynamics and Air-Sea Coupled ENSO Mechanisms</td>
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<tr>
<td>CVEN 5313 (3) Environmental Fluid Mechanics</td>
<td>CVEN 5333 (3) Physical Hydrology</td>
</tr>
<tr>
<td>CVEN 5353 (3) Groundwater Hydrology</td>
<td>CVEN 5404 (3) Water Chemistry</td>
</tr>
<tr>
<td>GEOL 5110 (3) Geomechanics</td>
<td>GEOL 5321 (3-4) Snow Hydrology</td>
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<td>GEOL 5080 (3) Advanced Hydrogeology and Modeling Concepts</td>
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Electives Courses (3 needed, additional classes from the core list can also be electives)

ATOC 5235 (3) Introduction to Atmospheric Radiative Transfer and Remote Sensing
ATOC 5550 (3) Mountain Meteorology
ATOC 5600 (3) Physics and Chemistry of Clouds and Aerosols
ATOC 5730 (3) Physical Oceanography and Climate
ATOC 5750 (3) Desert Meteorology and Climate
ATOC 5780 (3) Ice Sheets and Climate
ATOC 5850 (3) Numerical Methods Laboratory
CHEM 5141 (3) Environmental Water and Soil Chemistry
CVEN 5323 (3) Applied Stream Ecology
CVEN 5343 (3) Transport and Dispersion in Surface Water
CVEN 5363 (3) Modeling of Hydrologic Systems
CVEN 5383 (3) Applied Groundwater Modeling
CVEN 5404 (3) Water Chemistry
CVEN 5454 (3) Statistical Methods for Natural and Engineered Systems
CVEN 5537 (3) Numerical Methods in Civil Engineering
CVEN 5833 (3-4) Special Topics: Env. Transp. Disp. Proc
CVEN 6383 (3) Flow and Transport through Porous Media
CVEN 6414 (3) Aquatic Surfaces and Particles
EBIO 5030 (3) Limnology
ENVS 5840/GEOL 5305 (3) Global Biogeochemical Cycles
GEOG 5023 (4) Advanced Quantitative Methods for Spatial Data
GEOG 5093/GEOL 5093 (4) Remote Sensing of the Environment
GEOG 5241 (3-4) Topics in Physical Geography: Watershed Biogeochemistry
GEOG 5241 (3-4) Topics in Physical Geography: Fluvial Geomorphology
GEOG 5251 (4) Fluvial Geomorphology
GEOG 5271 (3) The Arctic Climate System
GEOG 5303 (4) Geographic Information Science: Spatial Programming
GEOG 5093/GEOL 5093 (4) Remote Sensing of the Environment
GEOG 5270 (3) Marine Chemistry and Geochemistry
GEOG 5280 (3) Aqueous and Environmental Geochemistry
GEOG 5305/ENVS 5840 (3) Global Biogeochemical Cycles
GEOG 5430 (3) Paleooceanography and Paleoclimatology
GEOG 5060 (4) Oceanography
GEOG 5700 (3-4) Geological Topics Seminar: Terrestrial Hydrology
GEOG 5700 (3-4) Geological Topics Seminar: Sedimentary Modeling

Please check our website for course updates: https://www.colorado.edu/program/hydrosciences/academics/courses