

# Hydrology Major

## Advisor Checklist

Name: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Student ID#: \_\_\_\_\_  
 Date of Entry to Major: \_\_\_\_\_

### UCD AND COLLEGE REQUIREMENTS (3-11 UNITS)

#### BACKGROUND

Subject A \_\_\_\_\_

American History/Inst. \_\_\_\_\_

May be satisfied by:

- 1 year High School US History/Government
- AP exam for American History/Government
- One of these courses:
  - AAS 10, 100, 120, 121
  - ASA 1, 2
  - ECN 111A, 111B
  - HIS 17A, 17B, 17C, 72A, 72B, 72C, 170A, 170B, 170C, 171A, 171B, 174A, 174B, 175A, 175B, 175C, 176A, 176B, 177A, 177B, 179, 180A, 180B, 183A, 183B
  - NAS 1, 10, 55, 116, 130A, 130B, 130C
  - POL 1, 5, 100, 101, 102, 103, 104, 105, 106, 108, 109, 130, 131, 160, 163
- Equivalent transfer credit

#### ENGLISH COMPOSITION (3-11)

English Composition Requirement\* \_\_\_\_\_

May be satisfied by:

- English Composition Examination (offered each quarter)
- One course emphasizing written expression and one course emphasizing oral expression
  - Written: ENL 3; UWP 1, 18, 19, 101, 102A, 102B, 102C, 102D, 102E, 102F, 102G, 104A, 104B, 104C, 104D, 104E, 104F
  - Oral: one additional course from the list above or CMN 1, COM 1, 2, 3, 4, NAS 5

\*note-Subject A must be satisfied before any writing course can count towards the General Education requirement

### PREPARATORY SUBJECT MATTER (70-71 UNITS)

#### Mathematics (22)

	<u>Completed</u>	<u>Outstanding</u>
MAT 21A (I II III, 4 units)	_____	_____
MAT 21B (I II III, 4 units)	_____	_____
MAT 21C (I II III, 4 units)	_____	_____
MAT 21D (I II III, 4 units)	_____	_____
MAT 22A (I II III, 3 units)	_____	_____
MAT 22B (I II III, 3 units)	_____	_____

#### Chemistry (15)

CHE 2A (I II, 5 units)	_____	_____
CHE 2B (II III, 5 units)	_____	_____
CHE 2C (I III, 5 units)	_____	_____

**\*\* Recommended \*\***

HYD 10 (III, 4 units)

#### Biological Sciences (9-10)

	<u>Completed</u>	<u>Outstanding</u>
BIS 1A (I II III, 5 units)	_____	_____
BIS 1C (I II III, 5 units)	_____	_____
<i>or</i> BIS 2A (I II III, 4 units)	_____	_____
BIS 2B (I II III, 5 units)	_____	_____

#### Computer Science (4)

ENG 6 (I II III, 4 units)	_____	_____
<i>(or equivalent course)</i>		

#### Physical Geology (5)

GEL 50 (I II, 3 units)	_____	_____
GEL 50L (I II, 2 units)	_____	_____

#### Physics (15)

PHY 9A (III, 5 units)	_____	_____
PHY 9B (I, 5 units)	_____	_____
PHY 9 C (II, 5 units)	_____	_____

**Total Units Completed** \_\_\_\_\_

**Total Upper Division** \_\_\_\_\_

**Total Units Outstanding** \_\_\_\_\_

**DEPTH SUBJECT MATTER (46-55 UNITS)**

**Completed**

**Hydrologic Science (21)**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- HYD 134 – Aqueous Geochemistry (III, 6) [Prereq: CHE 2B]
- HYD 141 – Physical Hydrology (I, 4) [Prereq: PHY 9B and MAT 21B; HYD 100 recom.]
- HYD 142 – Systems Hydrology (II, 4) [Prereq: HYD 141 or ECI 142]
- HYD 144 – Groundwater Hydrology (I, 3) [Prereq: MAT 16B or 21A, HYD 103 rec.]
- HYD 151 – Field Methods in Hydrology (II, 4) [Prereq: HYD 141 or ERS 100] *offered even years*

**\*\*Ideal Years\*\***  
 HYD 134 3<sup>rd</sup>, Spr  
 HYD 141 3<sup>rd</sup>, Fall  
 HYD 142 4<sup>th</sup>, Wtr

**Completed**

*Select three of the following courses:*

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- HYD 110 – Irrigation Principles and Practices (III, 3) [Prereq: PHY 5A; SSC 100 recommended]
- HYD 124 – Plant-Water-Soil Relationships (III, 4) [Prereq: upper div. in SSC, upper div. in PLS or PLB]
- HYD 143 – Hydrological Processes in Ecosystems (II, 3) [Prereq: HYD 141 or ERS 100] *offered odd years*
- HYD 146 – Hydrogeology and Contaminant Transport (II, 5) [Prereq: HYD 144 or ECI 144]
- ECI 141 and 141L – Engineering Hydraulics (I III, 4) [Prereq: ENG 103] *ECI 141L closed to non-Engr majors*
- ABT 165 – Irrigation Practices for an Urban Environment (II or III, 2) [Prereq: PHY 1A or 5A]

**Completed**

**Soil Science (5)**

\_\_\_\_\_

- SSC 107 – Soil Physics (I, 4) [Prereq: SSC 100, ERS 100, MAT 16A, or the equivalent]

**\*\*Ideal Year\*\***  
 SSC 107 4<sup>th</sup>, Fall

**Completed**

**Fluid Mechanics (4)**

\_\_\_\_\_  
 \_\_\_\_\_

- ENG 103 – Fluid Mechanics (I II III, 4) [Prereq: ENG 102] *or*
- HYD 103N – Fluid Dynamics (II, 4) [Prereq: PHY 9B]

**\*\*Tips\*\*** HYD 103N is recommended.  
 Vector Analysis in MAT 21D is crucial prep.  
 ENG 102 is closed to non-Engr majors.

**Completed**

**Probability and Statistics(4-8) Choose one of:**

\_\_\_\_\_  
 \_\_\_\_\_

- ECI 114 – Probabilistic Systems Analysis for Civil Engineers (I II, 4) [Prereq: MAT 21C]
- STA 130A and 130B – Mathematical Statistics: Brief Course (I, 4; II, 4) [Prereq: MAT 16B; STA 130A]

**Completed**

**Water Policy and Law(4-8) Choose one of:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- HYD 150 – Water Law (II, 3) [Prereq: ERS 100 or 121 or consent]
- ARE 147 – Resource and Environmental Policy Analysis (II or III, 3) [Prereq: ECN 1A]
- ESP 161 – Environmental Law (III, 4) [Prereq: upper div. standing and one env. sci. course]
- ESP 169 – Water Policy and Politics (III, 3) [Prereq: ECN 1A or POL 1]

**\*\* Tip \*\***  
 HYD 150  
 Recommended

Total Units Completed \_\_\_\_\_

Total Upper Division \_\_\_\_\_

Total Units Outstanding \_\_\_\_\_

**RESTRICTED ELECTIVES (16-26 UNITS)**

**Restricted Electives are courses chosen to supplement or expand areas of student interest, selected with the approval of the Master Adviser.**

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Total Units Completed \_\_\_\_\_

Total Upper Division \_\_\_\_\_

Total Units Outstanding \_\_\_\_\_

**GENERAL EDUCATION (18-24 UNITS)**

**3 Arts and Humanities Courses**

  
  


**3 Social Sciences Courses**

  
  


**3 Writing Courses**

  
  


**Diversity Course:**

**IGETC**

*(GE completed at Community College)*

**Total Units Completed** \_\_\_\_\_

**Total Upper Division** \_\_\_\_\_

**Total Units Outstanding** \_\_\_\_\_

**UNRESTRICTED ELECTIVES (6-20 UNITS)**

**Total Units Completed** \_\_\_\_\_

**Total Upper Division** \_\_\_\_\_

**Total Units Outstanding** \_\_\_\_\_

**UNIT REQUIREMENTS**

	<b>Total Upper Div Units</b>	<b>Total Units</b>
<b>UNIVERSITY AND COLLEGE REQUIREMENTS (0-8)</b>	_____	_____
<b>GENERAL EDUCATION (18-24)</b>	_____	_____
<b>PREPARATORY SUBJECT MATTER (67)</b>	_____	_____
<b>DEPTH SUBJECT MATTER (46-53)</b>	_____	_____
<b>RESTRICTED ELECTIVES (16-26)</b>	_____	_____
<b>UNRESTRICTED ELECTIVES (6-20)</b>	_____	_____
<b>TOTAL UNITS FOR THE DEGREE</b>	<b><u>54</u></b>	<b><u>180</u></b>
<b>UNITS OUTSTANDING</b>	_____	_____

Abbreviations:

AAS African American Studies	ECN Economics	MAT Mathematics
ASA Asian American Studies	ECS Engineering Computer Science	NAS Native American Studies
ARE Agricultural and Resource Econ.	ENG Engineering	POL Political Science
ATM Atmospheric Science	ENL English	PHY Physics
BIS Biological Sciences	ERS Environmental & Resource Sci.	SSC Soil Science
CHE Chemistry	ESP Environmental Science and Policy	STA Statistics
CMN Communications	GEL Geology	
COM Comparative Literature	HIS History	
ECI Engineering: Civil and Environ.	HYD Hydrology	

I = Fall  
 II = Winter  
 III = Spring

Last Updated: August 3, 2011