

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)

	Completed	Outstanding
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)

	Completed	Outstanding
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]

****Ideal Years****
 HYD 134 3rd, Spr
 HYD 141 3rd, Fall
 HYD 142 4th, 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]
- _____ 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 4th, 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]

**** 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.

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

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

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