

# OCEAN SCIENCES | CONCENTRATED HONOURS

## 1. FOUNDATIONS

	<i>COURSE</i>	<i>TERM</i>	<i>COURSE</i>	<i>TERM</i>
1A. Physics	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
1B. Calculus	<input type="radio"/> _____ / _____		<input type="radio"/> <b>MATH 1010</b> / _____	
1C. Stats	<input type="radio"/> <b>MATH 1060</b> / _____			
1D. Science Foundation 1	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
1E. Science Foundation 2	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	

## 2. OCEAN CORE

2A. Blue Planet	<input type="radio"/> <b>OCEA 2001</b> / _____		<input type="radio"/> <b>OCEA 2002</b> / _____	
2B. Tools & Concepts	<input type="radio"/> <b>OCEA 2020</b> / _____		<input type="radio"/> <b>OCEA 2021</b> / _____	
2C. Intro to Field Oceanography	<input type="radio"/> <b>OCEA 3003</b> / _____			
2D. Geological Oceanography	<input type="radio"/> <b>OCEA 4110</b> / _____			
2E. Physical Oceanography	<input type="radio"/> _____ / _____			
2F. Chemical Oceanography	<input type="radio"/> _____ / _____			
2G. Biological Oceanography	<input type="radio"/> <b>OCEA 4140</b> / _____			

## 3. OCEAN ELECTIVES

3A. Choose six OCEA courses	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	

## 4. OCEAN CAPSTONE

4A. Oceans and Global Change	<input type="radio"/> <b>OCEA 4000</b> / _____			
4B. Honours Research	<input type="radio"/> <b>OCEA 4201</b> / _____		<input type="radio"/> <b>OCEA 4202</b> / _____	

## 5. CAS GENERAL REQUIREMENTS

5A. Writing	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
5B. Mathematics	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
5C. Languages and Humanities	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
5D. Social Sciences	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	
5E. Life and Physical Sciences	<input type="radio"/> _____ / _____		<input type="radio"/> _____ / _____	

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To be eligible for Honours, a “B+” average (3.3) must be attained in the 2000, 3000, and 4000 level courses listed below.

## 1. FOUNDATIONS

- 1A. **Either** PHYC 1190 & PHYC 1290 – Intro to Physics **or** PHYC 1310 & PHYC 1320 – Physics In and Around You
- 1B. MATH 1000 & MATH 1010 – Differential and Integral Calculus I & II (completion of MATH 1215 – Life Science Calculus, with a grade of “B” or better, can be used in place of MATH 1000)
- 1C. MATH/STAT 1060 – Intro to Statistics
- 1D. **One** of the following introductory course sequences:
  - BIOL 1010 & BIOL 1011 – Principles of Biology I & II
  - CHEM 1011 & CHEM 1012 – Concepts in Chemistry I & II
  - EARTH 1080 & EARTH 1090 – Geology I & II
- 1E. Another **one** of the introductory course sequences listed in 1D

## 2. OCEAN CORE

- 2A. OCEA 2001 & OCEA 2002 – Blue Planet I & II with a minimum grade of “B”
- 2B. OCEA 2020 & OCEA 2021 – Tools & Concepts in Ocean Sciences I & II with a minimum grade of “B”
- 2C. OCEA 3003 – Intro to Field Oceanography (summer term only; apply through SEASIDE)
- 2D. OCEA 4110 – Geological Oceanography
- 2E. **Either** OCEA 3001 – Intro to Physical Oceanography **or** OCEA 4120 – Physical Oceanography
- 2F. **Either** OCEA 3002 – Intro to Chemical Oceanography **or** OCEA 4130 – Chemical Oceanography
- 2G. OCEA 4140 – Biological Oceanography

## 3. OCEAN ELECTIVES

- 3A. Any **six** 3000 and 4000 level OCEA courses not used in 2C-G or 4A-B

## 4. OCEAN CAPSTONE

- 4A. OCEA 4000 – Oceans and Global Change
- 4B. OCEA 4201 & OCEA 4202 – Honours Research I & II

## 5. COLLEGE OF ARTS & SCIENCE (CAS) GENERAL REQUIREMENTS

- 5A. Any **two** approved writing courses. Consider:
    - OCEA 1001 & OCEA 1002 – Conversations with Ocean Scientists I & II
  - 5B. MATH courses taken in **1B** fulfill this requirement
  - 5C. Many courses fulfill this **two** course requirement. Consider:
    - HIST 3073/OCEA 4331 – History of Marine Sciences
    - PHIL 1050 – Ethics in Science
    - *\*Courses chosen in 5C can't be used for 5D*
  - 5D. Many courses fulfill this **two** course requirement. Consider:
    - HIST 3073/OCEA 4331 – History of Marine Sciences
    - *\*Courses chosen in 5D can't be used for 5C*
- Any **two** PHYS, BIOL, CHEM, EARTH, or OCEA courses fulfill this subject grouping requirement