OCEAN SCIENCES | COMBINED HONOURS SECONDARY (B) SUBJECT

NAME & BANNER

Honours is declared in the third year of study, at which a "B+" average (3.3) must be attained in the 2000, 3000, and 4000 level courses listed below. Use this worksheet to map out your Ocean Sciences requirements. You're encouraged to take courses outside of oceanography in another area of interest to reach 40 total courses.

1. FOUNDATIONS	COURSE	TERM	COURSE	TERM
1A. Physics	O	_ /	O/	
1B. Calculus		_ /		
1C. Stats		_ /		
1D. Science Foundation 1	O	_ /	O/	
1E. Science Foundation 2	O	_ /	O/	
2. OCEAN CORE				
2A. Blue Planet	O DCEA 2001	_ /	O_DCEA 2002/	
2B. Tools & Concepts	O _ DCEA 2020	_ /	O _ DCEA 2021	
2C. Intro to Field Oceanography	O DCEA 3003	_/		
3. OCEAN AREAS				
3A. Ocean Area 1	O	_ /	O/	
3B. Ocean Area 2	O	_ /	O/	
3C. Ocean Area 3		_ /	0	
4. OCEAN CAPSTONE				1
4A. Oceans and Global Change	O _ DCEA 4000	_/		
5. CAS GENERAL REQUIREMENTS				
5A. Writing course	O	_/	0	
5B. Mathematics	O	_/	0	
5C. Languages and Humanities	O	_/		
5D. Social Sciences	O	_/		
5E. Life and Physical Sciences	O	_ /	0	

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NOTES



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REQUIREMENTS

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1.	FOUNDATIONS	(DISP students	should consult an	advisor for e	auivalencies
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- 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 (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 Part I & II
 - CHEM 1011 & CHEM 1012 Concepts in Chemistry I & II
 - ERTH 1080 & ERTH 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)

3. OCEAN AREAS (see reverse)

- 3A. **Two** courses from an Ocean Science Area not chosen in 3B or 3C
- 3B. **Two** courses from an Ocean Science Area not chosen in 3A or 3C
- 3C. **Two** courses from an Ocean Science Area not chosen in 3A or 3B

4. OCEAN CAPSTONE

4A. OCEA 4000 – Oceans and Global Change

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
- 5E. Any two PHYS, BIOL, CHEM, ERTH, or OCEA courses fulfill this subject grouping requirement

biological

OCEA 3685 -Gulf of Eilat Ecosystem OCEA 4140 -Biological Oceanography* OCEA 4160 -Fisheries Oceanography OCEA 4230 -Biology of Phytoplankton

OCEA 4330 -Benthic Ecology

OCEA 4335 -Environmental Impacts in

Marine Ecosystems

OCEA 4370 -Deep Sea Biology OCEA 4380 -Marine Modelling

OCEA 4665 -Hacking the Blue Planet

chemical

OCEA 3002 -Intro to Chemical Oceanography*

OCEA 3420 -Geochemistry of Aquatic

Environments

OCEA 4130 -Chemical Oceanography

OCEA 4290 -**Advanced Chemical**

Oceanography

OCEA 4595 -Atmospheric Chemistry

OCEAN SCIENCE ARFAS

geological

OCEA 3004 -Last Billion Years

OCEA 3420 -Geochemistry of Aquatic

Environments

OCEA 4110 -Geological Oceanography*

Micropaleontology and OCEA 4115 -

Global Change

OCEA 4470 -Introduction to

Seismic Imaging

OCEA 4480 -Advanced Seismic Imaging

physical

OCEA 3001 -Intro to Physical Oceanography*

OCEA 4120 -Physical Oceanography*

OCEA 4210 -Time Series Analysis in Oceanography and Meteorology

OCEA 4220 -Numerical Modelling of

Atmospheres and Oceans

OCEA 4221 -Ocean Dynamics

Estuary, Coast and Shelf Dynamics OCEA 4222 -

OCEA 4250 -Acoustical Oceanography

OCEA 4311 -Fluid Dynamics I

OCEA 4411 -Atmospheric Dynamics I

OCEA 4412 -Atmospheric Dynamics II

OCEA 4505 -Atmospheric Physics

OCEA 4520 -Intro to Atmospheric Science

OCEA 4541 -Synoptic Meteorology I

OCEA 4550 -Synoptic Meteorology II

CHECK ACADEMIC TIMETABLE FOR INFORMATION ON WHEN COURSES ARE OFFERED

* denotes required course for that Area – either OCEA 3001 or OCEA 4120 are required for physical oceanography



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