

## Bachelor of Advanced Science (Honours) 3962 – MATHG1 Physical Oceanography – T1 2026 START

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**Program:** Advanced Science (Honours) [3962]

### Year 1 Term 1

| Course or Activity                  | Prerequisites | Credits |
|-------------------------------------|---------------|---------|
| MATH1141 Higher Mathematics 1A      |               | 6       |
| SCIF0000 Introduction to University |               | 0       |
| <i>PHYS1121 or PHYS1131</i>         |               | 6       |
| <i>Free Electives</i>               |               | 6       |

### Year 1 Term 2

| Course or Activity             | Prerequisites | Credits |
|--------------------------------|---------------|---------|
| MATH1241 Higher Mathematics 1B | MATH1141      | 6       |
| <i>Free Electives</i>          |               | 6       |
| <i>Free Electives</i>          |               | 6       |

### Year 1 Term 3

| Course or Activity          | Prerequisites | Credits |
|-----------------------------|---------------|---------|
| SCIF1001 Advancing Science  |               | 6       |
| <i>PHYS1221 or PHYS1231</i> |               | 6       |

### Year 2 Term 1

| Course or Activity                                     | Prerequisites | Credits |
|--|---------------|---------|
| MATH2111 Higher Several Variable Calculus              | MATH1241      | 6       |
| MATH2241 Introduction to Atmosphere and Ocean Dynamics | MATH1241      | 6       |
| MATH2301 Mathematical Computing                        | MATH1241      | 6       |

### Year 2 Term 2

| Course or Activity  | Prerequisites | Credits |
|---|---------------|---------|
| MATH2221 Higher Theory and Applications of Differential Equations | MATH1241      | 6       |
| <i>Free Electives</i>   |               | 6       |
| <i>General Education</i>  |               | 6       |

### Year 2 Term 3

| Course or Activity | Prerequisites | Credits |
|--------------------|---------------|---------|
|--------------------|---------------|---------|

|                                  |          |   |
|----------------------------------|----------|---|
| SCIF2001 Level 2 Research Skills | SCIF1001 | 6 |
| <i>Free Electives</i>            |          | 6 |

### Year 3 Term 1

| Course or Activity                           | Prerequisites | Credits |
|--|---------------|---------|
| PHYS2801 Fundamentals of Atmospheric Science | MATH1141      | 6       |
| <i>Free Electives</i>                        |               | 6       |
| <i>General Education</i>                     |               | 6       |

### Year 3 Term 2

| Course or Activity               | Prerequisites      | Credits |
|----------------------------------|--------------------|---------|
| CLIM3001 Climate Systems Science | PHYS2801, MATH2241 | 6       |
| MSCI3001 Physical Oceanography   |                    | 6       |
| <i>Science Electives</i>         |                    | 6       |

### Year 3 Term 3

| Course or Activity                  | Prerequisites      | Credits |
|-------------------------------------|--------------------|---------|
| MATH3261 Fluids, Oceans and Climate | MATH2221, MATH2111 | 6       |
| SCIF3010 Graduation Portfolio       | SCIF1001           | 0       |
| <i>Level 3 Prescribed Electives</i> |                    | 6       |

\*Lock: Students are required to take these courses within the specified semester