

606-361 Marine Phytoplankton of Australia

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| Credit Points: | 12.50 |
| Level: | 3 (Undergraduate) |
| Dates & Locations: | 2009, This subject commences in the following study period/s: November, - Taught on campus. Intensive field-based subject. |
| Time Commitment: | Contact Hours: 18 one-hour lectures; thirteen 2.5-hour practical sessions. Total 50 hours. Total Time Commitment: 80 hours total time commitment. |
| Prerequisites: | 25 points of first year Biology plus 50 points of second year level Biological Science subjects or equivalent. |
| Corequisites: | <i>Marine Botany</i> |
| Recommended Background Knowledge: | - |
| Non Allowed Subjects: | # Students who have successfully completed <i>606-302 Marine Botany</i> as a 25 point subject prior to 2009 may not enrol in this subject (<i>606-361 Marine Phytoplankton of Australia</i>). |
| Core Participation Requirements: | It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit. |
| Coordinator: | Dr Richard Wetherbee |
| Contact: | - |
| Subject Overview: | This subject will introduce students to the biology of marine photosynthetic protists as well as identifying and classifying phytoplankton from marine and estuarine habitats. Topics to be covered include: <ul style="list-style-type: none"> # biodiversity and phylogeny of marine phytoplankton # origin of chloroplasts in protists, endosymbiosis # structure and function of phytoplankton # role of phytoplankton in the marine environment # toxic marine phytoplankton # commercial products derived from phytoplankton |
| Objectives: | At the completion of the subject, students should have developed an understanding of: <ul style="list-style-type: none"> # the biology and biodiversity of Australian phytoplankton # endosymbiosis and the origin of chloroplasts # the origin of protistan pirates and life style changes during evolution # practical skills in identifying the major groups of phytoplankton # current themes in algal research utilizing phytoplankton |
| Assessment: | Two 10-minute laboratory examinations during the teaching period (10%); a 2-hour laboratory examination in the assessment period (30%); a 2-hour written examination in the assessment period (60%). |
| Prescribed Texts: | - |
| Breadth Options: | This subject potentially can be taken as a breadth subject component for the following courses: <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09) |

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| | <ul style="list-style-type: none"> # <u>Bachelor of Commerce</u> (https://handbook.unimelb.edu.au/view/2009/F04) # <u>Bachelor of Environments</u> (https://handbook.unimelb.edu.au/view/2009/A04) # <u>Bachelor of Music</u> (https://handbook.unimelb.edu.au/view/2009/M05) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p> |
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| Generic Skills: | <p>By the end of the completion of the subject, students should be capable of:</p> <ul style="list-style-type: none"> # Reading and interpreting scientific literature # Critical analysis of data # Time management skills. # Working as part of a team # Independent critical thought and rational enquiry |
| Notes: | <p>Students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course will receive science credit for the completion of this subject.</p> <p>An enrolment quota of 40 students applies to this subject this year.</p> |
| Related Majors/Minors/Specialisations: | <p>Botany Marine Biology</p> |