

## Cell Biology (pre-2008 Bachelor of Science)

| <b>Year and Campus:</b>                            | 2014  |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
|--|---|----------------|--|---------|----------------------------|----------------|---|------------|-------|--|------------|-------|--|------------|-------|--|------------|-------|--|------------|-------|------------------------------------|------------|-------|---------------------------------------|------------|-------|---|------------|-------|---------------------------------|------------|-------|--------------------------------------|------------|-------|--|------------|-------|-----------------------------------|------------|-------|------------------------------------|-------------------------------------|-------|---|-------------------------------------|-------|
| <b>Coordinator:</b>                                | Dr Robb De longh Department of Anatomy and Cell Biology   |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| <b>Contact:</b>                                    | Email: <a href="mailto:r.deiongh@unimelb.edu.au">r.deiongh@unimelb.edu.au</a> (mailto:r.deiongh@unimelb.edu.au)   |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| <b>Overview:</b>                                   | <p>Major study in Cell Biology</p> <p>This major is available to Bachelor of Science students who commenced prior to 2008. The published structure of this major includes subjects available in the current year. Pre-2008 Bachelor of Science students who require advice on an appropriate subject selection to complete this major should contact the Science Student Centre.</p> <p>The University is committed to ensuring that students are not disadvantaged by recent changes to the curriculum and students may complete a major as defined by the current structure or a structure detailed in a previous year's handbook applicable to any year the student was enrolled in the course.</p>  |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| <b>Learning Outcomes:</b>                          | The objective of the cell biology major is to contribute to the academic preparation of graduates who embody the University of Melbourne graduate attributes, as well as additional attributes more specific to the Bachelor of Science..   |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| <b>Structure &amp; Available Subjects:</b>         | Completion of 50 points of study at Level 3.  |                |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| <b>Subject Options:</b>                            | <p><b>Cell Biology major</b></p> <p>Four of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BCMB30003 Molecular Aspects of Cell Biology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BOTA30003 Environmental Plant Physiology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>CEDB30002 Concepts in Cell &amp; Developmental Biology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GENE30002 Genes: Organisation and Function</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BCMB30002 Functional Genomics and Bioinformatics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MIIM30002 Principles of Immunology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>PATH30001 Mechanisms of Human Disease</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BOTA30005 Plant Molecular Biology &amp; Biotechnology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>CEDB30003 Developmental Biology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>NEUR30005 Developmental Neurobiology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BCMB30004 Cell Signalling and Neurochemistry</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL30001 Reproductive Physiology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>SCIE30001 Science Research Project</td> <td>Summer Term, Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOM30003 Biomedical Science Research Project</td> <td>Summer Term, Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p># 606-309 Frontiers of Cell Biology (prior to 2010)</p> <p># 652-303 Developmental and Cellular Genetics (prior to 2010)</p> |                |  | Subject | Study Period Commencement: | Credit Points: | BCMB30003 Molecular Aspects of Cell Biology | Semester 1 | 12.50 | BOTA30003 Environmental Plant Physiology | Semester 1 | 12.50 | CEDB30002 Concepts in Cell & Developmental Biology | Semester 1 | 12.50 | GENE30002 Genes: Organisation and Function | Semester 1 | 12.50 | BCMB30002 Functional Genomics and Bioinformatics | Semester 1 | 12.50 | MIIM30002 Principles of Immunology | Semester 1 | 12.50 | PATH30001 Mechanisms of Human Disease | Semester 1 | 12.50 | BOTA30005 Plant Molecular Biology & Biotechnology | Semester 2 | 12.50 | CEDB30003 Developmental Biology | Semester 2 | 12.50 | NEUR30005 Developmental Neurobiology | Semester 2 | 12.50 | BCMB30004 Cell Signalling and Neurochemistry | Semester 2 | 12.50 | BIOL30001 Reproductive Physiology | Semester 2 | 12.50 | SCIE30001 Science Research Project | Summer Term, Semester 1, Semester 2 | 12.50 | BIOM30003 Biomedical Science Research Project | Summer Term, Semester 1, Semester 2 | 12.50 |
| Subject  | Study Period Commencement:  | Credit Points: |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BCMB30003 Molecular Aspects of Cell Biology        | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BOTA30003 Environmental Plant Physiology           | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| CEDB30002 Concepts in Cell & Developmental Biology | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| GENE30002 Genes: Organisation and Function         | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BCMB30002 Functional Genomics and Bioinformatics   | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| MIIM30002 Principles of Immunology                 | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| PATH30001 Mechanisms of Human Disease              | Semester 1  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BOTA30005 Plant Molecular Biology & Biotechnology  | Semester 2  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| CEDB30003 Developmental Biology                    | Semester 2  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| NEUR30005 Developmental Neurobiology               | Semester 2  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BCMB30004 Cell Signalling and Neurochemistry       | Semester 2  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BIOL30001 Reproductive Physiology                  | Semester 2  | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| SCIE30001 Science Research Project                 | Summer Term, Semester 1, Semester 2   | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |
| BIOM30003 Biomedical Science Research Project      | Summer Term, Semester 1, Semester 2   | 12.50          |  |         |                            |                |   |            |       |  |            |       |  |            |       |  |            |       |  |            |       |                                    |            |       |                                       |            |       |   |            |       |                                 |            |       |                                      |            |       |  |            |       |                                   |            |       |                                    |                                     |       |   |                                     |       |

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|                           | # 516-307 Research Project A (prior to 2010)<br># 516-312 Research Project B (prior to 2010)   |
| <b>Notes:</b>             | The topic of the Science Research Project must be related to cell biology.<br>Students may only include one Research Project towards this major. |
| <b>Related Course(s):</b> | Bachelor of Arts and Bachelor of Science<br>Bachelor of Commerce and Bachelor of Science   |