

## Molecular Biotechnology (specialisation of Biotechnology major)

| <b>Year and Campus:</b>                            | 2014  |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
|--|---|----------------|--|---------|----------------------------|----------------|-------------------------------------|------------|-------|--|------------|-------|---------|----------------------------|----------------|---------------------------------|------------|-------|-----------------------------------|------------|-------|---|------------|-------|--|------------|-------|--|------------|-------|---|------------|-------|--|------------|-------|---------|----------------------------|----------------|-------------------------------------|------------|-------|--|------------|-------|---------|----------------------------|----------------|
| <b>Coordinator:</b>                                | See Biotechnology major   |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| <b>Contact:</b>                                    | See Biotechnology major   |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| <b>Overview:</b>                                   | Molecular Biotechnology specialisation within the Biotechnology major   |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| <b>Learning Outcomes:</b>                          | See Biotechnology major   |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| <b>Structure &amp; Available Subjects:</b>         | <p>Completion of 50 points of study at Level 3.</p> <p>There are two streams within this specialisation:</p> <ul style="list-style-type: none"> <li># Cell and Developmental Biology stream</li> <li># Genetics stream</li> </ul>   |                |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| <b>Subject Options:</b>                            | <p><b>Cell and Developmental Biology stream</b></p> <p>Both</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BTCH30003 Biotechnology in Practice</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> </tbody> </table> <p>Plus two electives selected from</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CEDB30003 Developmental Biology</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>BCMB30003 Molecular Aspects of Cell 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>BIOL30002 Experimental Reproductive Physiology</td> <td>Semester 2</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>CEDB30004 Stem Cells in Development &amp; Regeneration</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Genetics stream</b></p> <p>Both</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BTCH30003 Biotechnology in Practice</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> </tbody> </table> <p>Plus two electives selected from</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> </tbody> </table> |                |  | Subject | Study Period Commencement: | Credit Points: | BTCH30003 Biotechnology in Practice | Semester 1 | 12.50 | CEDB30002 Concepts in Cell & Developmental Biology | Semester 1 | 12.50 | Subject | Study Period Commencement: | Credit Points: | CEDB30003 Developmental Biology | Semester 2 | 12.50 | BIOL30001 Reproductive Physiology | Semester 2 | 12.50 | BCMB30003 Molecular Aspects of Cell Biology | Semester 1 | 12.50 | GENE30002 Genes: Organisation and Function | Semester 1 | 12.50 | BIOL30002 Experimental Reproductive Physiology | Semester 2 | 12.50 | BOTA30005 Plant Molecular Biology & Biotechnology | Semester 2 | 12.50 | CEDB30004 Stem Cells in Development & Regeneration | Semester 2 | 12.50 | Subject | Study Period Commencement: | Credit Points: | BTCH30003 Biotechnology in Practice | Semester 1 | 12.50 | GENE30002 Genes: Organisation and Function | Semester 1 | 12.50 | Subject | Study Period Commencement: | Credit Points: |
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| BTCH30003 Biotechnology in Practice                | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| CEDB30002 Concepts in Cell & Developmental Biology | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
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| CEDB30003 Developmental Biology                    | Semester 2  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| BIOL30001 Reproductive Physiology                  | Semester 2  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| BCMB30003 Molecular Aspects of Cell Biology        | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| GENE30002 Genes: Organisation and Function         | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| BIOL30002 Experimental Reproductive Physiology     | Semester 2  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| BOTA30005 Plant Molecular Biology & Biotechnology  | Semester 2  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| CEDB30004 Stem Cells in Development & Regeneration | Semester 2  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| Subject  | Study Period Commencement:  | Credit Points: |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| BTCH30003 Biotechnology in Practice                | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
| GENE30002 Genes: Organisation and Function         | Semester 1  | 12.50          |  |         |                            |                |                                     |            |       |  |            |       |         |                            |                |                                 |            |       |                                   |            |       |   |            |       |  |            |       |  |            |       |   |            |       |  |            |       |         |                            |                |                                     |            |       |  |            |       |         |                            |                |
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|--|--|------------|-------|
|  | GENE30001 Evolutionary Genetics and Genomics | Semester 1 | 12.50 |
|  | GENE30005 Human and Medical Genetics         | Semester 2 | 12.50 |
|  | GENE30004 Genetic Analysis                   | Semester 2 | 12.50 |
| <b>Related Majors/Minors/<br/>Specialisations:</b> | Biotechnology                                |            |       |