Accredited courses that may be used towards the A.Stat. designation. A minimum grade of B- (68%) is proposed for each course used.

<table>
<thead>
<tr>
<th>Module</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mathematics Modules</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 1. Calculus I               | {MATH 100\* Differential Calculus with Applications to Physical Sciences and Engineering  
                        MATH 104, Differential Calculus with Applications to Commerce and Social Sciences  
                        MATH 110 Differential Calculus  
                        MATH 120 Honours Differential Calculus  
                        MATH 180 Differential Calculus with Physical Applications  
                        MATH 184 Differential Calculus for Social Science and Commerce}  
                        AND  
                        {MATH 101\* Integral Calculus with Applications to Physical Sciences and Engineering  
                        MATH 103 Integral Calculus with Applications to Life Sciences  
                        MATH 105 Integral Calculus with Applications to Commerce and Social Sciences MATH 121 Honours Integral Calculus}  
                        OR  
                        SCIE 001: Science One |
| 2. Calculus II              | MATH 200 Calculus III  
                        OR  
                        MATH 226 Advanced Calculus I |
| 3. Linear Algebra           | MATH 221 Matrix Algebra  
                        OR  
                        MATH 307 Applied Linear Algebra |
| **Statistics and probability modules** |                                                                         |
| 4. Mathematical Statistics | MATH/STAT 302 Introduction to Probability  
                        AND  
                        STAT 305 Introduction to Statistical Inference |
### Linear Regression
- STAT 306 Finding Relationships in Data

### Design of Experiments
- STAT 404 Design and Analysis of Experiments
  - (If only one of these two courses is taken, the other must be replaced by a course from the list below.)

### Survey Sampling
- STAT 344 Sample Surveys

### Electives
- **Select three from**
  - STAT 300 Intermediate Statistics for Applications
  - STAT 321/357 Stochastic Signals and Systems
  - STAT 406 Methods for Statistical Learning
  - STAT 443 Time Series and Forecasting
  - STAT 450 Case Studies in Statistics
  - STAT 460 Statistical Inference I
  - STAT 461 Statistical Inference II
### Computer Skills

<table>
<thead>
<tr>
<th>9. Computer skills I</th>
<th>CSPC 110: Computation, Programs, and Programming</th>
</tr>
</thead>
</table>
| 10. Computer skills II | CPSC 210 Software Construction  
OR  
MATH 210 Introduction to Mathematical Computing |

### Communication Skills

| 11. Communication skills | ENGL 110 Approaches to Literature  
ENGL 111 Approaches to Non-fictional Prose  
ENGL 112 Strategies for University Writing  
ENGL120 Literature and Criticism  
SCIE 113 First-Year Seminar in Science  
OR  
SCIE 300 Communicating Science |

### Substantive Area

| 12. Course 1 | A minor in another area, or by any set of related three courses. Most minors are acceptable except those whose application content may be minimal. Minors in applicable mathematics (e.g. operational research, applied mathematics) and actuarial science are acceptable. |
| 13. Course 2 |
| 14. Course 3 |

*Various courses are equivalent to MATH 100/101, covering the same calculus topics but with different application areas. SCIE 001 is UBC’s Science One program, an integrated first year experience that covers all content common to the first year BSc Science program, including MATH 100 and MATH 101.*

**Date of Expiration:** January 3, 2024