

**BSc MATHEMATICAL SCIENCES & BSc STATISTICAL SCIENCES**SPECIALIZATION PROGRAM: MATHEMATICS; MATHEMATICS & ECONOMICS;  
MATHEMATICS & FINANCE; STATISTICS

HONORS PROGRAM: STATISTICS

FACULTY OF SCIENCE

UPDATED FEBRUARY 2012

This Academic Planning Guide highlights major points only regarding admission and transfer. Students are advised to read the university and RDC calendars and the Alberta Transfer Guide for other necessary information. Some courses listed may have prerequisites; refer to [Course Descriptions](#). Access this guide online: [www.rdc.ab.ca/academic\\_advising](http://www.rdc.ab.ca/academic_advising).

**THE DIFFERENCE BETWEEN BSC HONORS, SPECIALIZATION, AND GENERAL PROGRAMS AT UOFA**

The 4-year **Honors programs** are the most desired route for students continuing to Master of Science (MSc) or Doctor of Philosophy (PhD) and a research or academic career. Honors students focus on their major field of study, and are expected to maintain a higher standard of academic achievement than those in a Specialization or General program.

The 4-year **Specialization programs** do not concentrate on one subject to the same extent as the Honors programs. Specialization students take most of their courses in the major field of study, and are expected to maintain a higher standard of academic achievement than those in a General program. The Specialization degree can provide the background to help you proceed to a higher degree but their primary function is to provide a comprehensive education at the undergraduate level.

Transfer admission to Honors and Specialization programs requires a minimum course load and GPA in each year of post-secondary study preceding admission. Students wishing to move into these programs must meet the requirements regardless of their original/current program of study.

The 4-year **General program** provides a diverse education in more than one branch of study. Each student must complete a Science major and also a second Science major *or* complete a minor. The minor may be in Science or in Agricultural, Life & Environmental Science, Arts, or Business. The General program allows for subsequent transfer to Specialization and Honors programs and may be used to prepare for admission to professional programs.

**SPECIALIZATIONS: MATHEMATICS AND FINANCE****SUGGESTED PATTERN FOR YEAR 1**

FALL	WINTER
Option (3) <sup>1</sup>	CMPT 201 (3) <sup>2</sup>
STAT 251 (3) <sup>3</sup>	MATH 221 (3) <sup>3,4</sup>
MATH 203 (3) <sup>3</sup>	MATH 204 (3) <sup>3</sup>
ECON 201 (3) <sup>3</sup>	ECON 202 (3) <sup>3</sup>
ENGL 219 (3)	ENGL 220 (3)

**NOTES:**

- Option:** choose from transferable courses in ANTH, ART, BIOL, CHEM, DRAM, FILM, FREN, GEOG, HIST, PHIL, PHYS, POLI, PSYC, SOCI (not SOCI 310 or 312), SPAN.
- Re CMPT 201: See #3 and #7 on page 3.

- Students missing any of the MATH, STAT or ECON courses will *not* be admitted to either of these programs.
- MATH 221 is accepted in lieu of MATH 125 at UofA.

**SPECIALIZATIONS: MATHEMATICS; STATISTICS**

**HONORS: STATISTICS**

**SUGGESTED PATTERN FOR YEAR 1**

FALL	WINTER
ENGL 219 (3)	ENGL 220 (3)
MATH 203 (3) <sup>1</sup>	MATH 204 (3) <sup>1</sup>
MATH 221 (3) <sup>1</sup>	CMPT 201 (3)
Option (3) <sup>2-5</sup>	Option (3) <sup>2-5</sup>
Option (3) <sup>2-5</sup>	Option (3) <sup>2-5</sup>

**NOTES:**

- MATH 221 is accepted in lieu of MATH 125 at UofA; it may be taken in Fall or Winter. At least \*6 (6 credits) in MATH must be taken each Fall/Winter for the **Specialization in Mathematics**.
- Specialization in Mathematics:** \*3 in Science Options plus \*9 Arts &/or Science Options (see Notes 5 & 6).
- Specialization or Honors in Statistics:** must take STAT 251 plus \*9 in Arts Options &/or Science Options (see Notes 5 and 6). Both programs in statistics require at least \*9 Options at a 300-level in one distinct field of application. Examples of fields of applications are Biology, Computing Science, Economics, Engineering, Pharmacology, Political Science, Psychology, and Sociology. The 300-level courses will be taken at UofA. In preparation, students should sequence the prerequisite courses for the 300-level courses early in their program. Engineering courses are not available to RDC students not enrolled in BSc Engineering and Pharmacology courses are not offered at RDC.
- Science Options:** ASTR 205, BIOL (not 205 or 209), CHEM, GEOG 230, 231, PHYS, PSYC 260, STAT
- Arts Options:** transferable courses in ANTH, ART, CLAS, DRAM, ECON, FILM, FREN, GEOG, HIST, PHIL, POLI, PSYC, SOCI (not SOCI 310 or 312), SPAN

**SPECIALIZATION: MATHEMATICS AND ECONOMICS**

**SUGGESTED PATTERN FOR YEAR 1**

FALL	WINTER
ECON 201 (3) <sup>1</sup>	ECON 202
STAT 251 <sup>1</sup>	MATH 221 (3) <sup>2</sup>
MATH 203 (3) <sup>1</sup>	MATH 204 (3)
ENGL 219 (3)	ENGL 220 (3)
Option (3) <sup>4</sup>	Science Option (3) <sup>3</sup>

**NOTES:**

- At least \*6 (6 credits) in ECON, MATH or STAT must be taken *each* Fall/Winter of this program.
- MATH 221 is accepted in lieu of MATH 125 at UofA.
- Science Option:** choose one of ASTR, BIOL (not BIOL 209), CHEM, GEOG 230, 231, PHYS, PSYC 260
- Option:** choose from Science courses (see #3 above) or transferable courses in ANTH, ART, CLAS, DRAM, ECON, FILM, FREN, GEOG, HIST, PHIL, POLI, PSYC, SOCI (not SOCI 310 or 312), SPAN.

## ADMISSION AND TRANSFER INFORMATION

1. **Junior Level Courses:** Not more than \*42 (42 credits) of all courses taken can be at the junior level (100-level at UofA). Any junior course in excess of \*42 will not be counted towards the Science degree.
2. Possession of the minimum GPA does not guarantee admission to your program of choice.
3. **Students applying to Specialization in Mathematics** require a minimum 2.3 GPA on at least \*24 in *each preceding Fall/Winter* with a minimum 2.3 GPA on all Mathematics courses taken which can be credited towards the degree.
4. **Students applying to Specialization in Mathematics & Economics** normally require a GPA of at least 2.3 on the aggregate of all Mathematics and Economics courses taken which are eligible to be credited to the degree, and, in the student's most recent Fall/Winter, successful completion of at least \*24 with a GPA of at least 2.3 *each preceding Fall/Winter*. Students must take at least \*6 in ECON, MATH, or STAT in each Fall/Winter.
5. **Students applying to Specialization in Mathematics & Finance** require: all year 1 MATH, STAT and ECON courses completed; a minimum 2.7 GPA on at least \*24 in the preceding Fall/Winter; and all year 1 courses completed with a GPA of at least 2.7. Admission to this program is subject to enrolment management and is therefore competitive. Students transferring from RDC will complete only one of two first year Computing Sciences courses. The UofA Mathematics Departments states such applicants *may be at a slight disadvantage* in year 2 compared to those who also took CMPT 114 in first year at UofA. Contact UofA Mathematics Department with any questions.
6. **Students applying to Specialization in Statistics** normally require a GPA of at least 2.3 in the aggregate of all Mathematics and Statistics courses taken which are eligible to be credited to the degree and successful completion of at least \*24 with a GPA of at least 2.3 in *each preceding Fall/Winter*.
7. **Students applying to Honors in Statistics** require a minimum 3.0 GPA on \*24 in *each preceding Fall/Winter*.
8. **Spring term courses:** a spring term course may be taken in year of transfer *if it is not required for admission to the program*. The grade will not be calculated in the AGPA nor will it count towards Fall/Winter course load. Ensure the transcript submitted shows registration in the spring course
9. **A minimum grade of C-** must be achieved in order for the course to be transferable. However, while courses with grades of D and F will not transfer, they remain on your transcript and will be used in calculation of your GPA.
10. **Conditional Admission:** If you have higher than average standing in your postsecondary courses, you may be eligible for conditional admission. Transcript deadline: March 15. See UofA website.
11. **Course Attempts:** Students attending UofA are allowed to attempt a course no more than two times and cannot retake a course in which a passing grade was received. However, UofA honours the decisions of other institutions with respect to their students. If a student attempts a course twice at RDC (withdrawal, failing grade or non-transferable grade), UofA will accept the third attempt (if it is a C- or better) when determining transfer credit.  
  
When calculating the AGPA, UofA will use all grades obtained in the most recent terms containing at least \*24, including both a failing/non-transferable grade and a transferable grade in the same course. The first grade of C- or better received in a course is the only grade accepted for that course. Therefore, repeating a course for a higher grade is not advisable. If a student truly believes that he/she needs to repeat a course (in which a transferable grade was already earned) to master the material sufficiently to successfully continue in the program, it is recommended that the student audit the course.
12. **Academic Standing:** If you earn or have earned a GPA below 2.0 in any academic year of post-secondary education you are strongly advised to consult the UofA Calendar and contact the Faculty of Science **now** concerning your future admission to programs in the faculty. See [UofA Calendar](#) 15.15.7(3) and 15.15.7(4) and contact information in *How to Find more Information*.
13. **Application deadline:** May 1st **Transcript deadline for transfer students:** June 15th
14. **Regarding course transfer to UofA & Augustana Faculty:** When checking course transfer to UofA, note that courses which have *AU* as the first two letters of the course abbreviation in the Alberta Transfer Guide will transfer only to the UofA Augustana Faculty in Camrose. In order for a course to also transfer to other UofA faculties, there must be another entry indicating transfer as a course not beginning with *AU*. For example:

CMPT 214 = UofA CMPUT 114 (3) OR AUCSC 1xx (3)

CMPT 261 = UofA AUCSC 1xx (3)

CMPT 214 is transferable to all UofA faculties, including Augustana Faculty. CMPT 261 is accepted by Augustana Faculty only and will not transfer to other faculties at UofA.

**ALL BACHELOR OF SCIENCE STUDENTS ARE STRONGLY ADVISED TO:**

1. Consult [Course Descriptions](#) for possible course prerequisites,
2. Check [Alberta Transfer Guide](#) concerning course credit transfer to UofA, and Consult the [University of Alberta Calendar](#) for admission and program information.

## HOW TO FIND MORE INFORMATION

[Science Department](#)

Warren Elgersma, Chairperson  
Office: 1607-E 403-343-4052  
[warren.elgersma@rdc.ab.ca](mailto:warren.elgersma@rdc.ab.ca)  
[http://www.rdc.ab.ca/about\\_rdc/academic\\_departments/sciences](http://www.rdc.ab.ca/about_rdc/academic_departments/sciences)

[Academic Advising](#)

Academic Advising Centre: Room 1102  
[advisors@rdc.ab.ca](mailto:advisors@rdc.ab.ca) 403-342-3400  
[http://www.rdc.ab.ca/academic\\_advising](http://www.rdc.ab.ca/academic_advising)

[RDC Website](#)

<http://www.rdc.ab.ca>

[RDC Timetable](#)

<http://www.rdc.ab.ca/timetable>

[Alberta Transfer Guide](#)

<http://www.acat.gov.ab.ca>

[Faculty of Science](#)

1-800-358-8314

[Dept. of Mathematical & Statistical Sciences](#)

780-492-3396

[University of Alberta](#)

<http://www.ualberta.ca>

**PLEASE NOTE:**

Be aware that you are responsible for ensuring that your registration is complete and appropriate and that your course choices comply with the program to which you have been admitted at RDC and/or to the university to which you wish to transfer.

You are cautioned that any changes to your courses, your major or your transfer destination may adversely affect your transferable credit or admission requirements for future programs. Consult with an academic advisor if you have any questions.

The function of academic advisors is to provide students with information and resources that enable them to make informed decisions relevant to their education. These resources include the RDC, the Academic Planning Guide for your chosen program and destination university, the Alberta Transfer Guide and the calendar and contact information for your destination university. Academic advisors will assist you in interpreting information from these resources or refer you to your destination university if appropriate. Students in university transfer programs are strongly advised to refer to the calendar of the university to which they wish to transfer and should contact appropriate university departments as required.