

# Degree Planning and Checklist WORKSHEET

YEAR 1		Major (3 year and 4** year)	
1a. Principal	6a. major	11a. major	16a**. major
1b. Principal	6b. major	11b. major	16b**. major
2a. Principal	7a. major	12a. major	17a**. major
2b. Principal	7b. major	12b. major	17b**. elective
3a. Principal	8a. major	13a. elective	18a**. elective
3b. Principal	8b. elective	13b. elective	18b**. elective
4a. elective	9a. elective	14a. elective	19a**. elective
4b. elective	9b. elective	14b. elective	19b**. elective
5a. Cat A or B	10a. elective	15a. elective	20a**. elective
5b. Cat A or B	10b. elective	15b. elective	20b**. elective
Module and Graduation Planning			
First Year	5.0 courses numbered 1000-1999, including 1.0 from Category A or B		
	No principal courses less than 60%		
Module Courses	6.0 courses specified by Department.		
	60% cumulative average in major module.		
Essay	2.0 E, F, G courses including 1.0 from 2000 level or above (essay courses must be done at Western)		
Breadth	1.0 Category A (Social Science, Interdisciplinary and Multidisciplinary, Various)		
	1.0 Category B (Arts & Humanities and Languages)		
	1.0 Category C (Science)		
Courses	No more than 7.0 Year 1 courses, 13.0 minimum senior level		
BSc degree	4 year: 11.0 Science/BMSc courses (14.0 maximum in one subject area)* 3 year: 8.0 Science/BMSc courses (9.0 maximum in one subject area)*		
Averages	60% cumulative average in any additional Module taken		
	60% cumulative average on 20.0 courses successfully completed		

**\*Subject Areas:** Actuarial Science; Astronomy; Biology; Chemistry; Computer Science; Earth Sciences; Environmental Sciences; Physics; Statistical Sciences - are all separate subject areas. Courses in Applied Mathematics, Calculus and Mathematics belong to the same subject area – the subject area of mathematics.

# Major in Astrophysics

## 6.0 Module Courses

### Year 1: 5.0 Courses (2.0 Principal Courses)

- **1.0** course from: Physics 1301A/B, 1401A/B, 1501A/B or 80% in Physics 1028A/B and Physics 1302A/B, 1402A/B, 1502A/B or 80% in Physics 1029A/B
- **1.0 course** from: One of Calculus 1000A/B, 1500A/B AND one of Calculus 1501A/B (recommended) or Calculus 1301A/B (with a mark of at least 85%); or Applied Math 1413
- **3.0 elective courses**

### Points to Consider:

- Need a mark of at least 60% on the above 2.0 courses
- Students must complete Mathematics 1600A/B with a minimum mark of 55% by the end of Term 1 in Year 2

### Year 2: 5.0 Courses

- **0.5 course:** either Astronomy 2201A/B or 2801A/B
- **1.0 course:** Calculus 2502A/B, 2503A/B
- **0.5 course:** Applied Math 2402A or the former Differential Equations 2402A
- **1.0 course:** Physics 2101A/B, 2102A/B (pre-req for Astro 3302, 3303)
- **2.0 elective courses**

### Year 3: 5.0 Courses

- **0.5 course:** One of Astronomy 3302A/B or 3303A/B (These are offered in alternate years)
- **1.0 courses:** Physics 2110A/B and 2910F/G
- **3.5 elective courses** (highly recommended but not required: the remaining Astro 2201 or 2801)

### Year 4: 5.0 Courses

- **0.5 course:** Astronomy 3302A/B or 3303A/B (whichever one that was not taken in Year 3)
- **1.0 course** from: Applied Math 2814F/G, Physics 3900F/G/Z, 3926F/G, or the former Applied Math 2813A/B
- **3.5 elective courses**

\*Students must also complete Physics 2950Y, 3950Y (non-credit seminar courses)

### Points to Consider:

- See back page for important information.

### Notes:

- You may have taken a former course that isn't listed, because it isn't offered anymore, but still meets the requirements of the degree – refer to the online academic calendar for the complete list of substitutions.
- Students should plan this module taking into account prerequisites of senior courses.
- The order of courses listed here is a recommendation only. It is possible to complete this module in a different order than what is listed here

### Common Course Policy:

To be considered if you are completing two modules with common courses. You are allowed to double count 1.0 credits toward both modules. Any remaining common courses are distributed between the two modules as evenly as possible and substituted with alternate courses. Please note, when choice exists in a module, courses are not considered common unless and until all choice is exhausted. For more information, see the Academic Counselling website or speak with an Academic Counsellor.