Risk Management (R M) Actuarial Science Option (ACTSC) Sample Schedule with Stat Minor (and SOA/CAS Exams & VEE)

|  |  |  |  |
| --- | --- | --- | --- |
| **1st Semester** |  | **2nd Semester** | |
| PSU 006 *–* First Year Seminar | 1 | § **MGMT 301** *–* **Management** | 3 |
| § *ENGL 015 or 030 (GWS)* *– English Composition* | 3 | §***SCM 200 (GQ)*** *–* ***Statistics*** | 4 |
| § ***MATH 140 (GQ)*** *–* ***Calculus I* (MATH 141 if AP score of 4 or 5)** | 4 | §**MATH 141** *–* **Calculus II (or MATH 231)** | 4 |
| § *ECON 102 (GS) – Microeconomics -* VEE (B- or better or AP 4/5) | 3 | † Foreign Language 002 | 4 |
| † Foreign Lang 001 | 4 | §**ACCTG 211** *–* **Accounting (if place out of other course)** |  |
| Sign up for Actuarial Science Club [listserve](http://www.psuactsci.com/) asap Semester Credits | **15** |  | **15** |
| **3rd Semester** |  | **4th Semester** | |
| §**MKTG 301** *–* **Marketing** | 3 | § **FIN 301** *–* **Finance** - VEE (B- or better or AP 4/5) | 3 |
| §**ACCTG 211** *–* **Accounting (or FIN 301)** | 4 | Gen Education Natural Science (GN) | 3 |
| ♦ **MATH 231** *–* **Calculus III (or STAT 414, RM 297, & P Exam in Jan)** | 2 | CAS 100 (GWS) *–* Speech Communication | 3 |
| † Foreign Language 003 **(if place out, MATH 220: Matrices)** | 4 | **STAT 414 & RM 297** *–* **Prob Theory** **(or RM 410 & FM in June)** | 3 |
| ECON 104 *–* Macroeconomics – VEE (B- or better or AP 4/5) | 3 | *ENGL 202D – Business Writing* | 3 |
| **Attend Resume Workshop & Career Fair Semester Credits** | **16** | **STAT 416 - Stochastic Processes Semester Credits** | **15** |
| **5th Semester** |  | **6th Semester** | |
| **R M 301** *–* **Risk & Decisions** | 3 | **R M 320W: Risk Management & Insurance** | 3 |
| **R M 410** *–* **Financial Math FM Exam Dec (or RM 415 & MFE in Nov)** | 3 | **R M 411: Actuarial Mathematics I** | 3 |
| General Education (GA/GH/GS) | 3 | Gen Education (GA/GH/GS) | 3 |
| B LAW 341 *–* Business Law I: Contracts, Liability & Property | 3 | B A 342 *–* Business Ethics | 3 |
| General Education Natural Sciences (GH/GS/GA) | 3 | Health/KINES (GHA) | 1.5 |
| **STAT 415 - Mathematical Statistics Semester Credits** | **15** | **STAT 483 – SAS Semester Credits** | **16.5** |
| **7th Semester** |  | **8th Semester** | |
| **R M 412** *–* **Actuarial Mathematics II MLC Exam - October** | 3 | **R M 420** *–* **Property and Casualty Insurance C Exam – June**  ***or* R M 401** *–* **Fundamentals of Private Pensions** | 3 |
| **R M 430** *–* **Life and Health Insurance** | 3 | General Education (GA/GH/GS) | 3 |
| B A 411 *–* Analyzing Business and Industry | 3 | General Education (GA/GH/GS) | 3 |
| MIS 204 Business Information Systems | 3 | General Education Natural Science (GN) | 3 |
| General Education Natural Science (GN) | 3 | Health/KINES (GHA) | 1.5 |
| **STAT 462 or 501 – Regression Analysis** - VEE (B- or better or AP 4/5) | 3 | **STAT 462 – Time Series Analysis** - VEE or **CAS Exam S** | 3 |
| **Semester Credits** | **18** | **Semester Credits** | **16.5** |

§ Entrance-to-Major (ETM) courses must be finished by the end of the spring semester of the sophomore year.

All 300/400 level prescribed major courses (except ETM courses and 414) must be completed with Smeal Faculty at University Park.

† Students must complete 12th credit level in a foreign language. Credits vary based on skill level.

Courses in **Bold** require a grade of "C" or higher. **However, if you get C’s you should consider a different degree than actuarial science.**

Courses in *Italics* satisfy general education and degree requirements.

Please refer to the pre-requisites as you plan your course schedule.

**Advising Notes:**

* R M 410 and R M 412 are offered in the fall semester only. R M 411 is offered in the spring semester only
* Students pursuing an actuarial career should take VEE courses in <http://www.soa.org/education/exam-req/edu-asa-req.aspx> before graduation. Thus, take STAT 462/463 even though not required for graduation. **Students must earn a B- or better in all VEE courses**.
* **Consider a STAT minor, as you only need STAT 480 (SAS), STAT 415 (Mathematical Statistics), & MATH 220 (Matrices) to get it. STAT 415 helps with Exam C. MATH 220 helps with Exam MLC. Knowing SAS helps resume. STAT 483 (SAS) is even better.**
* **Students should take STAT/MATH 414 before their Junior year and take the SOA Probability Exam immediately thereafter. Passing that P exam will enable you to get an internship and avoid taking the P and FM exams simultaneously, which is very difficult!**
* See [www.math.psu.edu/ug/advising/vs](http://www.math.psu.edu/ug/advising/vs) on whether to place out of MATH 140 and 141