**Sample 4-yr Plan of Study – BS Degree in Quantitative Risk Analytics – MSU**

9/20/18 120 credits needed to graduate Minimum 2.0 overall GPA; Minimum 2.0 major courses GPA

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | First Year | Second Year | Third Year | Fourth Year | Total Credits |
|  |  |  | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring |
| MajorRequirements(Mathematics) | coursetitle(credits) |  | MTH 132Calculus I3 | MTH 133Calculus II4 | MTH 234Multivariable Calculus4 | MTH 299Transitions4 | MTH 235Differential Equations3 | MTH 457Financial Mathematics3 | MTH 467Insurance Concepts A3 |  | 33 |
|  |
|  |
| coursetitle(credits) |  |  |  | MTH 360Theory of Math Interest3 | MTH 361Theory of Math Interest II3 | MTH 309 Linear Algebra3 |  |  |  |
|  |
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| MajorRequirements(Statistics) | coursetitle(credits) |  |  |  |  | STT 441Probability3 |  | STT 442Statistics3 |  | STT 468Insurance Concepts B3 | 9 |
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| coursetitle(credits) |  |  |  |  |  |  |  |  |  |
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| MajorRequirements(Finance, Econ, Computer Sci) | coursetitle(credits) |  | ACC 230Survey of Accounting3 | EC 201Intro to MicroEconomics3 |  |  | FI 311Financial Management3 | FI 321Theory ofInvestments3 |  |  | 19 |
|  |
|  |
| coursetitle(credits) |  |  |  | CSE 231Intro to Programming4 |  | EC 202Intro to MacroEconomics3 |  |  |  |
|  |
|  |
| UniversityRequirements | coursetitle(credits) |  | WRA 101Writing Course4 | IAH 20\*(Arts & Humanities)4 |  |  | ISS 2\*\*(Integrated Soc Sci)4 | ISS 3\*\*(Integrated Soc Sci)4 | IAH 211+(Arts & Humanities)4 |  | 20 |
|  |
|  |
| Natural ScienceRequirements | coursetitle(credits) |  | CEM 141/161General Chem/Lab4+1 | CEM 142Gen & Inorg Chem3 | PHY 183Physics I4 | PHY 184Physics II4 |  | Any 1 of Biology electives3 |  |  | 19 |
|  |
|  |
| Electives | coursetitle(credits) |  |  |  |  |  |  |  | ELEC 8 | ELEC12 | 20 |
|  |
| Total credits |  | 15 | 14 | 15 | 14 | 16 | 16 | 15 | 15 | 120 |

**\* Internship is traditionally held over summer between 3rd and 4th year and should be the primary choice. However, for those unable to secure an internship, an advanced course in Mathematics, Statistics, Finance or Computer Science may be substituted to fulfil the requirement.**