

**BACHELOR OF SCIENCE IN MATHEMATICS**

| <b>FIRST YEAR</b>       |     |   |            |            |               |                     |
|-------------------------|-----|---|------------|------------|---------------|---------------------|
| <b>FIRST SEMESTER</b>   |     |   |            |            |               |                     |
| <b>CATALOUGE NUMBER</b> |     | <b>DESCRIPTIVE TITLE</b>                  | <b>LEC</b> | <b>LAB</b> | <b>TOTAL</b>  | <b>PREREQUISITE</b> |
| CHEM                    | 100 | General Chemistry I                       | 2          | 1          | 3             | NONE                |
| ENGL                    | 100 | Study and Thinking Skills                 | 3          | 0          | 3             | NONE                |
| FILI                    | 100 | Komunikasyon sa Akademikong Filipino      | 3          | 0          | 3             | NONE                |
| MATH                    | 101 | Pre-Calculus Mathematics I                | 3          | 0          | 3             | NONE                |
| MATH                    | 106 | Pre-Calculus Mathematics II               | 3          | 0          | 3             | NONE                |
| PE                      | 100 | Foundation of Physical Fitness            | 2          | 0          | 2             | NONE                |
| EUTH                    | 100 | Social Graces                             | 1          | 0          | 1             | NONE                |
| NSTP                    | 1   | National Service Training Program I       | 3          | 0          | 3             | NONE                |
|                         |     |   |            |            | <b>TOTAL:</b> | <b>17</b>           |
| <b>SECOND SEMESTER</b>  |     |   |            |            |               |                     |
| <b>CATALOUGE NUMBER</b> |     | <b>DESCRIPTIVE TITLE</b>                  | <b>LEC</b> | <b>LAB</b> | <b>TOTAL</b>  | <b>PREREQUISITE</b> |
| COMSCI                  | 100 | Computer Fundamentals                     | 2          | 1          | 3             | MATH 100            |
| ENGL                    | 105 | Speech Communication                      | 3          | 0          | 3             | ENGL 100            |
| FILI                    | 105 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3          | 0          | 3             | FILI 100            |
| MATH                    | 215 | Calculus I with Analytic Geometry         | 5          | 0          | 5             | MATH 101, 106       |
| SOCSCI                  | 100 | Society & Culture w/ Family Planning      | 3          | 0          | 3             | NONE                |
| PE                      | 105 | Rhythmic Activities                       | 2          | 0          | 2             | PE 100              |
| NSTP                    | 2   | National Service Training Program II      | 3          | 0          | 3             | NSTP 1              |
|                         |     |   |            |            | <b>TOTAL:</b> | <b>19</b>           |
| <b>SUMMER</b>           |     |   |            |            |               |                     |
| <b>CATALOUGE NUMBER</b> |     | <b>DESCRIPTIVE TITLE</b>                  | <b>LEC</b> | <b>LAB</b> | <b>TOTAL</b>  | <b>PREREQUISITE</b> |
|                         |     |   |            |            |               |                     |
|                         |     |   |            |            | <b>TOTAL:</b> |                     |

**SECOND YEAR**

**FIRST SEMESTER**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE                   | LEC    | LAB | TOTAL | PREREQUISITE  |
|------------------|-----|-------------------------------------|--------|-----|-------|---------------|
| HUMAN            | 100 | Introduction to the Humanities      | 3      | 0   | 3     | NONE          |
| PSYCH            | 100 | General Psychology                  | 3      | 0   | 3     | NONE          |
| STAT             | 200 | Introduction to Statistics          | 2      | 1   | 3     | MATH 101      |
| MATH             | 220 | Calculus II with Analytic Geometry  | 5      | 0   | 5     | MATH 215      |
| MATH             | 202 | Fundamental Concepts of Mathematics | 3      | 0   | 3     | MATH 101, 106 |
| PE               | 110 | Individual and Dual Sports          | 2      | 0   | 2     | PE 100        |
|                  |     |                                     | TOTAL: |     | 19    |               |

**SECOND SEMESTER**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE                   | LEC    | LAB | TOTAL | PREREQUISITE |
|------------------|-----|-------------------------------------|--------|-----|-------|--------------|
| POLSCI           | 101 | Philippine History and Constitution | 3      | 0   | 3     | NONE         |
| STAT             | 120 | Probability Theory I                | 3      | 0   | 3     | STAT 200     |
| MATH             | 225 | Calculus III with Analytic Geometry | 3      | 0   | 3     | MATH 220     |
| MATH             | 250 | Linear Algebra                      | 3      | 0   | 3     | MATH 101     |
| ELECTIVE         | 1   |                                     | 3      | 0   | 3     |              |
| PE               | 115 | Team Sports                         | 2      | 0   | 2     | PE 100       |
|                  |     |                                     | TOTAL: |     | 17    |              |

**SUMMER**

| CATALOUGE NUMBER |  | DESCRIPTIVE TITLE | LEC    | LAB | TOTAL | PREREQUISITE |
|------------------|--|-------------------|--------|-----|-------|--------------|
|                  |  |                   |        |     |       |              |
|                  |  |                   | TOTAL: |     |       |              |

**THIRD YEAR**

**FIRST SEMESTER**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE         | LEC | LAB | TOTAL | PREREQUISITE |
|------------------|-----|---------------------------|-----|-----|-------|--------------|
| ENGL             | 110 | Writing in the Discipline | 3   | 0   | 3     | ENGL 100     |
| PHILO            | 103 | Logic                     | 3   | 0   | 3     | NONE         |
| PHYS             | 100 | Introductory Physics      | 2   | 1   | 3     | MATH 106     |
| MATH             | 230 | Differential Equations    | 3   | 0   | 3     | MATH 225     |
| MATH             | 410 | Abstract Algebra          | 3   | 0   | 3     | MATH 225     |
| ELECTIVE         | 2   | _____                     | 3   | 0   | 3     |              |
| TOTAL:           |     |                           |     |     | 18    |              |

**SECOND SEMESTER**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE                | LEC | LAB | TOTAL | PREREQUISITE               |
|------------------|-----|----------------------------------|-----|-----|-------|----------------------------|
| ENGL             | 235 | Philippine Literature in English | 3   | 0   | 3     | ENGL 105, 110              |
| MATH             | 236 | Mathematical Modeling            | 3   | 0   | 3     | MATH 230, 250              |
| MATH             | 238 | Modern Geometry                  | 3   | 0   | 3     | MATH 250, 410,<br>STAT 200 |
| MATH             | 260 | Advanced Calculus I              | 3   | 0   | 3     | MATH 225                   |
| ELECTIVE         | 3   | _____                            | 3   | 0   | 3     |                            |
| FREE ELECTIVE    | 1   | _____                            | 3   | 0   | 3     |                            |
| TOTAL:           |     |                                  |     |     | 18    |                            |

**SUMMER**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE | LEC | LAB | TOTAL | PREREQUISITE    |
|------------------|-----|-------------------|-----|-----|-------|-----------------|
| MATH             | 498 | Practicum         | 6   | 0   | 6     | Junior Standing |
| TOTAL:           |     |                   |     |     | 6     |                 |

**FOURTH YEAR**

**FIRST SEMESTER**

| CATALOUGE NUMBER |      | DESCRIPTIVE TITLE                                 | LEC | LAB | TOTAL  | PREREQUISITE    |
|------------------|------|---|-----|-----|--------|-----------------|
| ECON             | 100  | Principles of Economics w/ Land Reform & Taxation | 3   | 0   | 3      | NONE            |
| MATH             | 411  | Abstract Algebra II                               | 3   | 0   | 3      | MATH 410        |
| MATH             | 415  | Complex Analysis                                  | 3   | 0   | 3      | MATH 260        |
| ELECTIVE         | 4    |   | 3   | 0   | 3      |                 |
| MATH             | 499A | Thesis I  | 3   | 0   | 3      | Senior Standing |
|                  |      |   |     |     | TOTAL: | 15              |

**SECOND SEMESTER**

| CATALOUGE NUMBER |      | DESCRIPTIVE TITLE                | LEC | LAB | TOTAL  | PREREQUISITE |
|------------------|------|----------------------------------|-----|-----|--------|--------------|
| PI               | 100  | Rizal's Life, Works and Writings | 3   | 0   | 3      | NONE         |
| ELECT            | 5    |                                  | 3   | 0   | 3      |              |
| FREE ELECTIVE    | 2    |                                  | 3   | 0   | 3      |              |
| MATH             | 499B | Thesis II                        | 3   | 0   | 3      | MATH 499A    |
|                  |      |                                  |     |     | TOTAL: | 12           |

**TOTAL NUMBER OF UNITS – 135**

**ELECTIVE COURSES**

| CATALOUGE NUMBER |     | DESCRIPTIVE TITLE                               | LEC | LAB | TOTAL | PREREQUISITE |
|------------------|-----|---|-----|-----|-------|--------------|
| MATH             | 103 | Discrete Mathematics                            | 3   | 0   | 3     | MATH 106     |
| MATH             | 213 | Differential Equations                          | 3   | 0   | 3     | MATH 230     |
| MATH             | 245 | Elementary Number Theory                        | 3   | 0   | 3     | MATH 101     |
| MATH             | 255 | Set Theory and Logic                            | 3   | 0   | 3     | MATH 101     |
| MATH             | 263 | Real Analysis                                   | 3   | 0   | 3     | MATH 250     |
| MATH             | 315 | Graph Theory                                    | 3   | 0   | 3     | MATH 250     |
| MATH             | 400 | Fundamentals of Computer II                     | 3   | 0   | 3     | COMSCI 100   |
| MATH             | 416 | Numerical Analysis                              | 3   | 0   | 3     | MATH 255     |
| MATH             | 430 | General Topology                                | 3   | 0   | 3     | MATH 230     |
| MATH             | 435 | Operation Research I (Linear Programming)       | 3   | 0   | 3     | MATH 250     |
| MATH             | 437 | Operation Research II (Integral Programming II) | 3   | 0   | 3     | MATH 435     |
| MATH             | 440 | Theory of Interest                              | 3   | 0   | 3     | MATH 215     |
| MATH             | 445 | Actuarial Mathematics                           | 3   | 0   | 3     | MATH 440     |
| MATH             | 125 | Probability Theory                              | 3   | 0   | 3     | STAT 120     |