Information Table

| Course Name \& No. | ESPB <br> Standard/s <br> Addressed by <br> Assessment | Brief Description of Course (from catalog or course syllabus) | Description of Assessment Used |
| :---: | :---: | :---: | :---: |
| MATH166 CalculusII | $\begin{aligned} & 1.1,1.2, \\ & 2.2,2.3, \\ & 3.1,3.6, \\ & 4.1,4.4 \end{aligned}$ | Techniques and applications of integration, exponential and logarithmic functions, parametric equations, infinite sequences and series. | Embedded final exam questions |
| MATH208 Discrete Mathematics | $\begin{aligned} & 1.1,1.2, \\ & 2.1,2.2, \\ & 2.3,3.1, \\ & 3.2,3.5 \end{aligned}$ | Introduction to set theory, functions and relations, permutations and combinations, Logic, Boolean algebra, induction, difference equations, and graphs. | Final exam |
| MATH266 - <br> Differential <br> Equations | $\begin{aligned} & \hline 1.1,1.2, \\ & 2.2,2.3, \\ & 3.1,3.6, \\ & 4.1,4.4 \end{aligned}$ | Solution of elementary differential equations by elementary techniques, Laplace transforms, introduction to matrix theory, and systems of differential equations. | Embedded final exam questions |
| MATH308 - <br> History of Mathematics | 5.1, 5.2 | This is a course on the conceptual and chronological history of mathematics. It involves the interpretation of how and why ideas have developed over time including political, philosophical and cultural considerations. | Final exam |
| MATH321 - <br> Applied <br> Statistical <br> Methods | $\begin{aligned} & \text { 1.1, 1.2, } \\ & \text { 2.2, 2.3, } \\ & 3.1,3.4, \\ & 3.5,3.6, \\ & 4.5,4.6, \\ & 4.7,6.1 \end{aligned}$ | Introductory statistics for students with a background in single-variable calculus. Course covers descriptive statistics, continuous and discrete probability density functions, sampling distributions, point and interval estimation, and tests of hypotheses. | Minitab Assignment \#3 Final exam |
| Math330 Set Theory and Logic | $\begin{aligned} & 1.1,1.2, \\ & 2.1,2.2, \\ & 2.3,3.1, \\ & 3.2,5.2 \end{aligned}$ | Topics are axioms and operations on sets, mathematical logic, relations and functions, development of the natural and real number systems, the axiom of choice. | Final exam |
| Math400 - <br> Methods and <br> Materials of <br> Teaching <br> Middle and <br> Secondary <br> School <br> Mathematics | $\begin{aligned} & \text { 2.1, 2.2, } \\ & 2.3,3.1, \\ & 3.2,3.3, \\ & 3.4,3.5 \\ & 3.6,6.1, \\ & 7.1,8.1 \end{aligned}$ | Various Teaching methods, strategies and materials used in teaching middle and secondary school mathematics. National and state standards for teaching and learning mathematics. Curriculum development, preparation/evaluation of exams, units and materials of instruction. Recent developments in mathematics education and instructional alternatives. | Writing Assignment Lesson Plans |
| Math409 Geometry | $\begin{aligned} & \text { 1.1, 1.2, } \\ & \text { 2.1, 2.2, } \\ & 3.3,3.6, \\ & 4.2,4.5 \end{aligned}$ | Metric and synthetic approach to Euclidean geometry. Logical discourse covering congruence, inequalities, parallelism, similarity, area, solid geometry, and the circle. | Final Exam |
| Math435 - <br> Theory of Numbers | $\begin{aligned} & \hline 1.1,1.2, \\ & 2.1,2.2, \\ & 2.3,3.1 \end{aligned}$ | Basic properties of numbers including divisibility, primes, congruences, Diophantine equations, and residues. | Final Exam |


| Math441 - | $1.1,1.2$, | Elements of group theory, rings, integral | Final Exam |
| :--- | :--- | :--- | :--- |
| Abstract | $2.1,2.2$, | domains, and fields |  |
| Algebra | $2.3,3.1,4.3$ |  |  |
| Math442 - | $1.1,1.2$, | Theoretical treatment of linear equations, | Final Exam |
| Linear | $2.1,2.2$, | matrices, vector spaces, linear |  |
| Algebra | $2.3,3.3,4.3$ | transformations, and canonical <br> forms |  |



| Assessment Scores | F | D | C | B | A | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| MATH166 - Calculus II | 0 | 2 | 0 | 4 | 19 | 25 |
| Computer Lab II Scores | $0 \%$ | $8 \%$ | $0 \%$ | $16 \%$ | $76 \%$ |  |
| MATH208 - Discrete | 5 | 4 | 6 | 11 | 6 | 32 |
| Mathematics | $15.6 \%$ | $12.5 \%$ | $18.8 \%$ | $34.4 \%$ | $18.8 \%$ |  |
| Final Exam Scores |  |  |  |  |  |  |
| MATH308 - History of | 2 | 0 | 4 | 6 | 8 | 20 |
| Mathematics Final Exam | $10 \%$ | $0 \%$ | $20 \%$ | $30 \%$ | $40 \%$ |  |
| Scores |  |  |  |  |  |  |
| MATH321 - Applied | 5 | 5 | 14 | 12 | 9 | 45 |
| Statistical Methods Minitab | $11.1 \%$ | $11.1 \%$ | $31.1 \%$ | $26.7 \%$ | $20 \%$ |  |
| Assignment 3 Scores |  |  |  |  |  |  |
| MATH321 - Applied | 0 | 4 | 11 | 9 | 5 | 29 |
| Statistical Methods Final | $0 \%$ | $13.8 \%$ | $37.9 \%$ | $31.0 \%$ | $17.2 \%$ |  |
| Exam Scores |  |  |  |  |  |  |
| MATH330 - Set Theory and | 1 | 1 | 3 | 5 | 2 | 13 |
| Logic Final Exam Scores | $7.7 \%$ | $7.7 \%$ | $23.1 \%$ | $38.5 \%$ | $15.4 \%$ |  |
| MATH409 - Geometry Final | 0 | 4 | 6 | 5 | 7 | 22 |
| Exam Scores | $0 \%$ | $18.2 \%$ | $27.3 \%$ | $22.7 \%$ | $31.8 \%$ |  |
| MATH435 - Theory of | 1 | 0 | 3 | 10 | 4 | 18 |
| Numbers Final Exam Scores | $5.6 \%$ | $0 \%$ | $16.7 \%$ | $55.6 \%$ | $22.2 \%$ |  |
| MATH441 - Abstract Algebra | 1 | 1 | 4 | 3 | 4 | 13 |
| Final Exam Scores | $7.7 \%$ | $7.7 \%$ | $30.8 \%$ | $23.1 \%$ | $30.8 \%$ |  |
| MATH442 - Linear Algebra | 0 | 0 | 3 | 5 | 6 | 14 |
| Final Exam Scores | $0 \%$ | $0 \%$ | $21.4 \%$ | $35.7 \%$ | $42.9 \%$ |  |

