

**BACHELOR of ARTS DEGREE**  
**in MATHEMATICS EDUCATION (6-12)**

**Department of Teaching and Learning**  
**Information Sheet**

**NOTE:** All College of Education Secondary Degree Programs are Florida Department of Education (DOE) and Council for Accreditation of Teacher Education (CAEP) approved. This State and CAEP approval represents the transferability of your teaching credentials from state-to-state.

**Professional Education component courses offered through the College of Education:**

|                 |  |                    |   |
|-----------------|--|--------------------|---|
| <b>EDF 2005</b> | <b>Introduction to the Teaching Profession</b> | <b>(3 credits)</b> | <b>(Requires 15-hour field component)</b> |
| EDF 2085        | Introduction to Diversity for Educators        | (3 credits)        | (Requires 15-hour field component)        |
| EME 2040        | Introduction to Technology for Educators       | (3 credits)        |   |
| EDF 3210        | Applied Learning Theory                        | (3 credits)        |   |
| EDF 3430        | Ed. Measurement & Evaluation                   | (3 credits)        |   |
| TSL 4324        | ESOL Strategies for Content Area Teachers      | (3 credits)        |   |
| MAE 4360        | Teaching Mid & Secondary School Math           | (3 credits)        | (Requires 10-hour field component)        |
| RED 4335        | Content Read: Mid & Sec School                 | (3 credits)        |   |
| <b>ESE 3940</b> | <b>Sec. School Effective Instruction*</b>      | <b>(3 credits)</b> | <b>(Requires 90-hour field component)</b> |

\*Must be programmed and taken the fall/spring semester prior to student teaching. (Offered in fall and spring terms only)

\*\*Students **MUST** contact the Department of Mathematics for preliminary assessment

**BEFORE beginning this program. \*\***

**Mathematics content courses offered through the C.E. Schmidt College of Science:**

(Please see FAU catalog for possible prerequisite courses)

|          |                                     |             |                  |                             |             |
|----------|-------------------------------------|-------------|------------------|-----------------------------|-------------|
| MAC 2311 | Calculus with Analytic Geometry I   | (4 credits) | MAD 2502         | Intro to Computational Math | (3 credits) |
| MAC 2312 | Calculus with Analytic Geometry II  | (4 credits) | <b><u>OR</u></b> | A Programming Course        |             |
| MAD 2104 | Discrete Mathematics                | (3 credits) |                  |                             |             |
| MAC 2313 | Calculus with Analytic Geometry III | (4 credits) |                  |                             |             |
| MAS 2103 | Matrix Theory                       | (3 credits) |                  |                             |             |
| STA 4442 | Probability and Statistics I        | (3 credits) |                  |                             |             |
| MAA 4200 | Modern Analysis                     | (3 credits) |                  |                             |             |
| MAS 4301 | Modern Algebra                      | (3 credits) |                  |                             |             |
| MTG 3212 | Survey of Geometry                  |             |                  |                             |             |

**Plus:**

**Upper Division Electives: (15 Credits)**

Approval of advisor required: see list of preapproved courses on back. Upper division electives are not limited to only those listed.

**Final Semester: (6-12 credits)**

|  |                               |  |
|--|-------------------------------|--|
| MAE 4945   | Student Teaching: Mathematics | (Full-time internship, to be completed during a fall or spring term) |
| ***ALL COURSEWORK AND CERTIFICATION EXAMS (FTCE: General Knowledge, Math 6-12 SAE, PEd) MUST BE COMPLETED PRIOR TO STUDENT TEACHING*** |                               |  |
| Applications to Student Teach during the fall semester are due by January 31   |                               |  |
| Applications to Student Teach during the spring semester are due by September 15   |                               |  |

**PROGRAM ADMISSION REQUIREMENTS:**

- 60 semester hours completed
- 2.5 overall Grade Point Average (GPA)
- Passing scores on the General Knowledge test

NOTICE: Copies of this publication can be obtained in an alternate format by contacting the College of Education/Department of Teaching and Learning at [deptteachlearn@fau.edu](mailto:deptteachlearn@fau.edu) or 561-297-6595. This publication is available in standard print, Braille, or

electronically for people with disabilities. Please allow at least 10 days to process this request.

**Upper Division Mathematics Approved Electives:**  
(Please see FAU catalog for possible course prerequisites)

**Select 15 credits:**

|     |        |                                       |                               |
|-----|--------|---------------------------------------|-------------------------------|
| MAS | 3203*  | Introductory Number Theory            | (3 credits)                   |
| MAP | 3305   | Engineering Mathematics I             | (3 credits)                   |
| MAD | 3400*  | Numerical Methods                     | (3 credits)                   |
| MAD | 4402   | Numerical Analysis II                 | (3 credits)                   |
| MHF | 3302*  | History of Mathematics                | (3 credits)                   |
| MHF | 3302   | Mathematical Logic                    | (3 credits)                   |
| STA | 4102   | Computational Statistics I            | (3 credits)                   |
| STA | 4103   | Computational Statistics II           | (3 credits)                   |
| STA | 4234*  | Applied Statistics I                  | (2 credits) <b><i>and</i></b> |
| STA | 4202L* | Applied Statistics I Lab              | (1 credit)                    |
| STA | 4702   | Applied Statistics II                 | (3 credits)                   |
| MAD | 4301*  | Graph Theory                          | (3 credits)                   |
| STA | 4853   | Applied Time Series and Forecasting   | (3 credits)                   |
| MAP | 4303   | Differential Equations II             | (3 credits) <b><i>OR</i></b>  |
| MAP | 4306   | Engineering Mathematics II            | (3 credits)                   |
| MAA | 4402*  | Introductory Complex Analysis         | (3 credits)                   |
| STA | 4443*  | Probability and Statistics II         | (3 credits)                   |
| STA | 4618*  | Linear Programming and Game Theory    | (3 credits)                   |
| MAT | 4937   | Mathematical Problem Solving          | (3 credits)                   |
| CIS | 4362   | Cryptography and Information Security | (3 credits)                   |
| MAS | 4107   | Linear Algebra II                     | (3 credits)                   |
| MAD | 4605   | Introduction to Coding Theory         | (3 credits)                   |
| MTG | 4930   | Topics in Geometry                    | (1-4 credits)                 |
| MAT | 4930   | Topics in Mathematics                 | (1-4 credits)                 |
| MAT | 4906   | Directed Independent Study            | (1-4 credits)                 |
| STA | 4906   | Directed Independent Study            | (1-4 credits)                 |

(\*Recommended courses)