

**TOWSON UNIVERSITY**  
**CHECKLIST OF DEGREE REQUIREMENTS FOR**  
**ELEMENTARY EDUCATION STUDENTS FOLLOWING**  
**THE SCIENCE AND MATHEMATICS TRACK**  
**STUDENTS MATRICULATING ON OR AFTER SEPTEMBER 1, 1999**

The major in elementary education with the science and mathematics track requires a minimum of 132 semester hours of college credit. An average GPA of 3.0 or better is required for the track, and a GPA of at least 3.0 in the major is required for entering student teaching. The following listing includes the requirements for General Education (GenEd), Elementary Education major with science and mathematics track, and Maryland State Certification. Requirements may change based on course availability; substitute courses may be allowed with approval from the Elementary Education department.

**ACADEMIC CONTENT**

Courses taken before formal admission to the four semester professional education sequence.

- I. ENGLISH (9 semester hrs)**  
 (I.A) ENGL 102 Writing for a Liberal Education (3) \_\_\_  
 (I.C.3) Choose an English course from I.C.3 (3) \_\_\_  
 (I.D) Advanced Composition (ENGL.)\* \*\* (3) \_\_\_
- II. SOCIAL STUDIES (12 semester hrs)**  
 (II.D) GEOG 102 World Regional Geography (3) \_\_\_  
 OR  
 (II.D) GEOG 105 Geog. Of International Affairs (3) \_\_\_  
 HIST elective (3) \_\_\_  
 (II.B.1) HIST 145 Hist of US to Mid-19th Century (3) \_\_\_  
 OR  
 (II.B.1) HIST 146 Hist of US since Mid-19th Cent. (3) \_\_\_  
 (II.B.2) POSC 103 American National Gov't (3) \_\_\_  
 OR  
 (II.B.2) SOCI 101 Intro to Sociology (3) \_\_\_
- III. SCIENCE (15 semester hrs)**  
 (II.A.1) BIOL 110 Contemporary General Biology &  
 CHEM 100 Chemistry For Non-Scientists (7) \_\_\_  
 (II.A.1) PHSC 101 & GEOL 121 Physical Geology (8) \_\_\_  
 (ENVS 471 Environmental Science—See 3rd level  
 internship)
- IV. MATHEMATICS (18-20 semester hrs)**  
 (I.C) MATH 205 Mathematical Concepts  
 & Structures II (4) \_\_\_  
 MATH 251 Elements of Geometry (4) \_\_\_  
 (I.C) MATH 273 Calculus (4) \_\_\_  
 2 MATH electives (Suggested 231 & 263) (6-8) \_\_\_
- V. ART (3 semester hrs)**  
 (I.E) Choose an ART course from I.E.) (3) \_\_\_
- VI. MUSIC (3 semester hrs)**  
 (II.C.1) MUSC 101 Intro to Music Western Heritage (3) \_\_\_
- VII. KINESIOLOGY (2 semester hrs)**  
 KNES 281 Physical Ed.  
 For ELED students I (1) \_\_\_  
 KNES 282 Physical Ed.  
 For ELED students II (1) \_\_\_

**Academic Content (continued)**

- VIII. Add'l Required Courses (12 semester hrs)**  
 (I.B) ISTD 201 Using Info. Effectively in Educ. (3) \_\_\_  
 OR  
 (II.B) IDNM 101 Using Information Effectively  
 in Science (3) \_\_\_  
 (II.B.3) Choose 1 course II.B.3 (3) \_\_\_  
 (II.C.2) PSYC 101 Intro. To Psychology (3) \_\_\_  
 PSYC 201 Educational Psych. (3) \_\_\_  
 Summer Internship in Math/Science \_\_\_  
 (or pre-approved semester research project)

**Students must have taken Praxis Series tests, Speech and Hearing screening, and possess a GPA of 2.75 to enter the Four Semester Professional Education Sequence.**

**FOUR SEMESTER  
 PROFESSIONAL EDUCATION SEQUENCE**

**FIRST LEVEL INTERNSHIP (15 semester hrs)**

- \*ELED 322 Foundations Rdng. & Other Lang. Arts (3) \_\_\_  
 \*ELED 323 Prin. & Prac. Instr. Rdng. & Lang. Arts (3) \_\_\_  
 \*ELED 363 Field Studies in Elem. Teaching (3) \_\_\_  
 \*EDUC 417 Child Lit. & Other Mat. For Rdng.  
 Lang. Art (3) \_\_\_  
 \*\*SPED 301 Intro. To Special Education (3) \_\_\_

**SECOND LEVEL INTERNSHIP (14 semester hrs)**

- \*BIOL 303 Life Sciences (3) \_\_\_  
 \*MATH 323 Tchg. Math. Elem. School (3) \_\_\_  
 \*MATH 324 Obs. Part./Elem. Sch. Math (2) \_\_\_  
 \*PHSC 303 Earth-Space Science (3) \_\_\_  
 \*SCIE 376 Tchg. Science Elementary School (3) \_\_\_

**THIRD LEVEL INTERNSHIP (14/15 semester hrs)**

- \*ELED 311 Child & Elem. School Curriculum (3) \_\_\_  
 ENVS 471 Environmental Sciences (3) \_\_\_  
 \*ELED 429 Prin. & Prac. Of Assess. In Rdng.  
 Lang. Arts (3) \_\_\_  
 \*\*ARED 371 Art and Child (3) \_\_\_ OR  
 \*\*KNES 324 Tchg. P.E. in Elem. School (2) \_\_\_ OR  
 \*\*MUED 305 Meth. Tchg. Music/El. Ed. (2) \_\_\_  
 \*\*EDUC 401 Foundations of Education (3) \_\_\_

**TEACHER CANDIDATE (15 semester hrs)**

- \*ELED 468 Student Teaching (12) \_\_\_  
 \*ELED 469 Student Teaching Seminar (3) \_\_\_

**MCTP Minimum Total—132 Semester Hours**

\*Must be taken in prescribed sequence. \*\*Prescribed sequence strongly recommended. All courses must be completed prior to student teaching. \*\*\* Gen. Ed. I.D. Advanced Composition course must be taken at Towson University.

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