Kennesaw State University
Department of Physics

*See [http://catalog.kennesaw.edu](http://catalog.kennesaw.edu) for general education comments, prerequisites, course descriptions, program details, and graduation requirements.

### CHECKLIST | Effective Fall 2016

#### GENERAL EDUCATION (45 hrs)

**AREA A: Essential Skills**

- ENGL 1101 Composition I (3 hrs)
- ENGL 1102 Composition II (3 hrs)
- MATH 1112 College Trig or MATH 1113 (3 hrs) PreCalculus

**AREA B: Institutional Options** *(Recommended by Department)*

- ECON 1000 Contemporary Economics Issues (3 hrs)
- COM 1100 Human Recommmunication (3 hrs)

**AREA C: Humanities/Fine Arts**

*Select 1 of 10 Literature of the World:

- ENGL 2110, 2111, 2112, 2120, 2121, 2122, 2130, 2131, 2132, or 2300 (3 hrs)

*Select 1 three hour Arts and Culture of the World course:

- ART, MUSI, TPS, or DANC 1107

**AREA D: Science, Math, and Technology**

- CHEM 1211 General Chemistry I Lab (3 hrs)
- CHEM 1211L General Chemistry I Lab (1 hr)
- CHEM 1212 General Chemistry II (3 hrs)
- CHEM 1212L General Chemistry I Lab (1 hr)
- MATH 1190 Calculus I (4 hrs)

**AREA E: Social Sciences** *(Recommended by Department)*

- POLS 1101 American Government (3 hrs)
- HIST 2112 America Since 1890 (3 hrs)
- HIST 1100 Introduction to World History (3 hrs)
- STS 1101 Science, Technology, and Society (3 hrs)

**INSTITUTIONAL REQUIREMENT**

- WELL 1000 Fitness for Living (3 hrs)

**FREE ELECTIVES (3 hrs)**

- KSU First Year Seminar (3 hrs) or Learning Community*

#### AREA F: LOWER DIVISION REQUIREMENTS (19 hrs)

- PHYS 2211 Principles of Physics I (3 hrs)
- PHYS 2211L Principles of Physics I Lab (1 hr)
- PHYS 2212 Principles of Physics II (3 hrs)
- PHYS 2212L Principles of Physics II Lab (1 hr)
- PHYS 2211 Principles of Physics I Lab (1 hr)
- BIOL 1107 Biological Principles I (3 hrs)
- BIOL 1107 Biological Principles I Lab (1 hr)
- MATH 2202 Calculus II (3 hrs)
- MATH 2203 Calculus III (3 hrs)

**UPPER DIVISION MAJOR REQUIREMENTS**

#### REQUIRED COURSES

- MATH 2306 Differential Equations (3 hrs)
- PHYS 3210 Intermediate Mechanics (4 hrs)
- PHYS 3220 Electromagnetism I (3 hrs)
- PHYS 3410K Electronics Laboratory (2 hrs)
- PHYS 3500K Introduction to Computational Physics (2 hrs)
- PHYS 3710 Modern Physics (4 hrs)
- PHYS 4210 Quantum Physics (4 hrs)
- PHYS 4230 Thermal Physics (4 hrs)

#### PROFESSIONAL EDUCATION REQUIREMENTS

**EDSM 1101 Step 1: Inquiry Approached to Teaching (1 hr)** *(10 hr field experience)*

- EDSM 1101 Step 2: Inquiry-based Lesson Design (1 hr) *(10 hr field experience)*
- EDSM 2010 Knowing and Learning (2 hr)
- SCED 2421 Classroom Interactions (3 hr) *(45 hr field experience)*
- SCED 3010 Perspectives on Science Teaching (3 hr)
- PHED 3372 Research Methods or Directed Study (2 hrs)
- PHED 4422 Project-based Instruction (3 hrs) *(45 hr field experience)*
- PHED 4423 Seminar - Pedagogical Content Knowledge for Physics (2 hrs)
- PHED 4660 Year-long Clinical Practicum II (6 hrs) *(660 hr field experience)*
- INED 3305 Teaching Students with Exceptionalities I (2 hrs)
- INED 3306 Teaching Students with Exceptionalities II (1 hr)
- INED 4435 Teaching Adolescent English Learners (1 hr)
- INED 4436 Teaching Diverse Language Learners (2 hrs)
- ITEC 3300 Improv. Teach. w/ Tech. in HS Classroom (3 hrs)

**Note:** A cleared Background check is required to commence the OwlTeach sequence.

#### ADMISSION TO TEACHER EDUCATION

- Complete an online application through the Student Services tab in your Owl Express account.
- Apply during the appropriate dates for that year/term.
- Completed at least 45 semester hours.
- Complete EDSM 1101,1102 & 2010 with a ‘C’ or better, a satisfactory field experience evaluation, and recommendation from the EDUC 2010 instructor.
- Achieved a 3.00 KSU adjusted GPA for guaranteed admission, but a 2.75 for consideration on a case-by-case basis.
- Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC id #.
- Pass or exempt (STAT 1000 or ACT 43) the GACE Program Admissions Tests in Reading, Writing, and Math.

For details visit: [http://bagwell.kennesaw.edu/centers/ess/ess-resources/ess-forms](http://bagwell.kennesaw.edu/centers/ess/ess-resources/ess-forms)