

DEGREE REQUIREMENTS CHECKLIST

THIS OPTION IS DESIGNED TO FULFILL THE COURSE REQUIREMENTS FOR CERTIFICATION IN TEXAS AS A SECONDARY SCHOOL WITH A COMPOSITE TEACHING FIELD. COMPLETION OF THE PROGRAM DOES NOT GUARANTEE THE STUDENT'S CERTIFICATION.

This checklist below provides a summary of the requirements for the degree and major indicated above. For complete information, you should consult the Undergraduate Catalog 2000-2002. If you have any questions, please speak with an academic advisor at RLM 4.101.

PRESCRIBED WORK: THESE COURSES MUST BE TAKEN ON A LETTER-GRADE BASIS.

1. • English: RHE 306 E 316K
 • Substantial Writing Component: One upper-division course* One additional course*
**These requirements can be fulfilled by completion of PHY329 and 453 and HIS 329U/PHL329U.
 These two courses may satisfy other degree requirements. They can be any number of semester hours. Consult the Course Schedule for a complete listing of writing component courses for a particular semester.*
2. Foreign Language: **Students in the teaching Option are exempt from this requirement. ***
**Students who enter the University with fewer than two high school units in a single foreign language must take the first two semesters in a language without degree credit to remove their foreign language deficiency.*
3. U.S. History: 6 semester hours of American History (3 hours of Texas History may be used toward one of the U.S. History requirements)
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4. Government: GOV 310L (or GOV 3 TX in transfer) GOV 312L (or GOV 3 US in transfer)
5. 3 semester hours from **one** of the following areas:
 Anthropology Economics Geography Linguistics Psychology Sociology
Students in the teaching option are exempt from both requirements 6 and 7.
8. 3 semester hours from **one** of the following areas:
 Architecture Classics Department College of Fine Arts Philosophy (*not logic*)
This requirement can be fulfilled by completion of HIS 329U/PHL329U.

PRESCRIBED WORK FOR OPTION V

- All of the following mathematics courses:
 M 408C M 408D M 427K M 427L
- One of the following:
 M 341 M 340L M 361 M362K
Only courses at the level of calculus or above may be counted toward the total number of hours required for the degree.

MAJOR REQUIREMENTS: ALL MAJOR REQUIREMENTS MUST BE TAKEN ON A LETTER-GRADE BASIS. A GPA OF AT LEAST 2.0 IN THESE PHYSICS COURSES IS REQUIRED.

NOTE: Although they are not part of the degree requirements, lower division PHY courses such as PHY 301, PHY 316, PHY 315, PHY 101L, PHY 116L, PHY 115L, or an equivalent physics sequence approved by the Undergraduate Advisor, must be completed before taking these upper division physics courses.

UPPER-DIVISION PHYSICS:

- 22 semester hours of upper-division physics courses consisting of:
 PHY 329 Introduction to Computational Physics
 PHY 336K Classical Dynamics I
- PHY 338K Electronic techniques
 PHY 453 Modern Physics I: Introduction to Quantum Phenomena
 PHY 341 Topic: Research Methods (*This is a supporting course for certification.*)
- One of the following:
 PHY 333 PHY 352K PHY 373
- 3 additional upper division semester hours in Physics, approved by the Undergraduate Advisor.

CERTIFICATION REQUIREMENTS: COURSES INTENDED FOR NON-SCIENCE MAJORS MAY NOT BE COUNTED TOWARD THIS REQUIREMENT.

- 2 supporting courses from the following:
 HIS 329U/PHL 329U Perspectives in Mathematics and Science (*This course fulfills degree requirement 8.*)
 BIO 337, CH 368 or PHY 341 Research Methods Topics
- 8 semester hours in Biology courses including:
 BIO 211 BIO 212 BIO 213 or BIO 214

- One of the following:

BIO 205L BIO 206L BIO 208L

- 6 semester hours in Geological Sciences to fulfill the composite science teacher certification requirement:

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- 8 semester hours in Chemistry to fulfill the composite science teacher certification requirement:

CH 301 CH 302 CH 204 (or 317)

- 18 semester hours of professional development coursework:

CH 107 Topic: Step 1

BIO 101C Topic: Step 2

EDC 371 Topic 21: Knowing and Learning in Math and Science

EDC 667S Student Teaching in Secondary Schools

CH 107

EDC 371

❖ EDC 371

Topic: Special Topics Seminar

Topic 20: Classroom Interactions

Topic 22: Project Based Instruction

NOTE: You must apply and gain acceptance to the UTeach program prior to enrolling for these courses. For more information contact the UTeach office at 232-2770.

SAMPLE COURSE PLAN

FRESHMAN YEAR			NOTES
<u>Semester 1</u> M 408C RHE 306 CH 107 CH 301 Social science requirement (3 hrs) PHY 110C	<u>Semester 2</u> M 408D BIO 101C PHY 301/PHY 101L CH 302 PHY 110C	<u>Summer</u> M 427K BIO 211 BIO 212	
SOPHOMORE YEAR			
<u>Semester 1</u> E 316K PHY 316/PHY 116L EDC 371 CH 204 Elective (3 hrs) Elective (3 hrs)	<u>Semester 2</u> M 427L PHY 315/PHY 115L EDC 371 HIS 329U/PHL 329U BIO 337, CH 368, or PHY 341 (Research Methods)	<u>Summer</u> BIO 205L, 206L, or 208L BIO 213 or 214	
JUNIOR YEAR			
<u>Semester 1</u> PHY 336K PHY 453 M 361, 340L, 341, or 362K GOV 310L	<u>Semester 2</u> PHY 338K PHY (3 hrs UD) GEO 3 hrs GOV 312L HIS 315L	<u>Summer</u>	
SENIOR YEAR			
<u>Semester 1</u> PHY 329 PHY 333, 352K, or 373 Elective (3 hrs) HIS 315K GEO 3 hrs	<u>Semester 2</u> EDC 667S (Student Teaching in Secondary Schools)	<u>Summer</u>	

ELECTIVES

- Electives are necessary to complete the **120-semester-hour requirement** for the B. S. in Physics Teaching Option.
- Once 30 hours of college credit is earned, up to 16 semester hours of electives may be taken pass/fail.
- Only two courses per semester may be taken pass/fail.

GENERAL DEGREE REQUIREMENTS: YOU MUST SATISFY ALL OF THE FOLLOWING CONDITIONS IN ORDER TO GRADUATE.

- Minimum cumulative UT GPA of 2.5.
- 30 semester hours must be completed in residence (in the classroom at UT).
- 24 of the last 30 semester hours counted toward the degree must be in residence.
- 18 upper-division semester hours must be completed in residence.
- 12 semester hours of upper-division coursework in the major must be completed in residence.
- 36 semester hours of the coursework must be upper-division.

The following courses will not count toward this degree: M301, KIN or PED one-hour activity courses. No more than 12 semester hours of Bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.