

# **Unofficial Degree Planning Worksheet**

# *Catalog Year: 2019-2020*

# BS in PHYSICS

| This worksheet is designed to help you plan and track your progress toward your degree. It lists all the graduation requirements. For full course descriptions, please refer to the current undergraduate [Catalog](http://www.ut.edu/catalog). | Course Taken or Transferred In | Semester Taken or Course Remaining |
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| UNIVERSITY GRADUATION REQUIREMENTS | | |
| Students must earn 124 hours to be eligible for graduation.  Students must maintain an overall GPA of a 2.0 to be eligible for graduation.  Students must complete 31 of the last 35 hours in residency at UT. | | |
| BACCALAUREATE EXPERIENCE REQUIREMENTS***Courses used for Baccalaureate Experience may not be used in the major (unless otherwise stated in the catalog).*** | | |
| Two-Year Learning Community | | |
| BAC 100 (0cr) – Digital Skills |  |  |
| BAC/HON 101/102 (2cr) – First-Year Seminar (two semester sequence)  BAC 103 (1cr) – Transfer Student Seminar (one semester course) *- Optional*  BAC 104 (1cr) – Veteran Student Seminar (one semester course) |  |  |
| AWR 101 (4cr) – Writing and Inquiry   * *Domestic Students may be required to take AWR 100 based on English Placement.* * *International Students may be required to take AWR 110 before AWR 101 or AWR 111 in conjunction with AWR 101 based on English Placement.* |  |  |
| AWR 201 (4cr) – Writing and Research  *Recommended to take in the second year* |  |  |
| Mathematics (4cr) – MAT 260 – Calculus I – **FULFILLED BY MAJOR** |  |  |
| Natural Science – NS (6 Credits)  ***Must be lecture course, not a lab.*** | | |
| Biological Science (3cr) – |  |  |
| Chemical or Physical Science (3cr) – PHY 205 – General Physics with Calculus I  ***FULFILLED BY MAJOR*** |  |  |
| Humanities – HFA (11 Credits) | | |
| * *Must have at least two different disciplines represented.* * *May only apply up to 4 credits of Studio/Performance courses.*   *Courses to fulfill this requirement may be found in the following disciplines: animation, dance, english/literature, film, foreign languages, linguistics, music, new media, philosophy, religion, speech and theatre, plus those art, communication, writing and women’s and gender studies courses so designated in the Course Descriptions section of the catalog.* |  |  |
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| Social Science – SS (11 Credits) | | |
| * *Must have at least two different disciplines represented.*   *Courses to fulfill this requirement may be found in the following disciplines:* *economics, geography, history, political science, psychology, sociology, and urban studies, plus those communication, criminology, law justice and advocacy, and women’s and gender studies courses so designated in the Course Descriptions section of the catalog.* |  |  |
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| Art/Aesthetic – A (3 Credits)  ***Can come from anywhere in the curriculum.*** | | |
| *Art/aesthetic courses are devoted primarily to the development of skills in human expression for the purpose of engaging the aesthetic sense, or courses devoted primarily to the development of students’ critical appreciation of aesthetics. Courses can be found in multiple disciplines, see Course Search or Catalog to find courses.* |  |  |
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| Non-Western and International/Global Awareness – NW/IG (9 Credits)  ***Can come from anywhere in the curriculum.*** | | |
| Non-Western (3cr)  *Deal in either a direct or comparative way with political, social, or cultural issues within the context of non-Western or Third World concerns.* |  |  |
| International/Global Awareness (3cr)  *Deal in a direct or comparative way with political, social, cultural or economic issues impacting the international and/or global arena.* |  |  |
| Non-Western or International/Global Awareness (3cr) |  |  |
| Writing Intensive – W (9 Credits)  ***Can come from anywhere in the curriculum.*** | | |
| *Courses in addition to AWR 101 and AWR 201 that emphasize writing as a process of learning and communicating. Some credits may be waived for transfer students, please refer to the Catalog for more information.* |  |  |
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| MAJOR REQUIREMENTS (69-72 Credits) | | |
| PHY 205 (4cr) – General Physics with Calculus I  ***Pre-Req:*** *MAT 170 or equivalent*  ***Co-Req:*** *PHY 205L and MAT 260* |  |  |
| PHY 205L (0cr) – General Physics with Calculus I Laboratory  ***Co-Req:*** *PHY 205* |  |  |
| PHY 206 (4cr) – General Physics with Calculus II  ***Pre-Req:*** *MAT 260 and PHY 205 (with a grade of “C” or better)*  ***Co-Req:*** *PHY 206L* |  |  |
| PHY 206L (0cr) – General Physics with Calculus II Laboratory  ***Co-Req:*** *PHY 206* |  |  |
| PHY 280 (4cr) – Mathematical Methods for Physics  ***Pre-Req:*** *PHY 205 and PHY 206 (with a grade "C" or better).* |  |  |
| PHY 307 (4cr) – Modern Physics  ***Pre-Req:*** *MAT 260, PHY 201 or PHY 206 (with a grade "C" or better).* |  |  |
| PHY 320 (4cr) – Classical Mechanics  ***Pre-Req:*** *PHY 307 (with a grade "C" or better).* |  |  |
| PHY 340 (4cr) – Electricity and Magnetism  ***Pre-Req:*** *PHY 307 (with a grade "C" or better).* |  |  |
| PHY 350 (4cr) – Advanced Physics Lab  ***Pre-Req:*** *PHY 307 (with a grade "C" or better).* |  |  |
| PHY 360 (4cr) – Quantum Mechanics  ***Pre-Req:*** *PHY 307 (with a grade "C" or better).* |  |  |
| PHY 430 (4cr) – Thermodynamics and Statistical Mechanics  ***Pre-Req:*** *PHY 307 (with a grade "C" or better), PHY 360* |  |  |

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| PHY 451 (1-4cr) – Physics Capstone  ***Pre-Req:*** *PHY 307 (with a grade "C" or better).* |  |  |
| MAT 260 (4cr) – Calculus I  ***Pre-Req:*** *MAT 170 with a grade of “C” or higher, or equivalent* |  |  |
| MAT 261 (4cr) – Calculus II  ***Pre-Req:*** *MAT 260 with a grade of “C” or higher* |  |  |
| MAT 262 (4cr) – Calculus III  ***Pre-Req:*** *MAT 261 with a grade of “C” or higher* |  |  |
| MAT 300 (4cr) – Differential Equations  ***Pre-Req:*** *MAT 262 with a grade of “C” or higher* |  |  |
| Major Electives (16 Credits)  *Four additional PHY or AST courses above the 300-level* | | |
| PHY Major Elective (4cr) |  |  |
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| Recommended Coursework | | |
| PHY 180 (2cr) – Introduction to Programming for the Physical Sciences |  |  |
| Major Residency Requirements (15 Credits) | | |
| *Students must complete at least 15 credit hours in the student’s major.* | | |
| Major GPA Requirements | | |
| *Students must maintain a major GPA of a 2.0 to be eligible for graduation.* | | |