

BA in Physics with 3/2 engineering sample 3 year plan

revised 5/27/22

Fall

Spring

yr.1

| Course | CR |
|-------------------------------------|-----------|
| PH 135/L - Physics I + Lab | 4 |
| MT 135 - Calc & Analytic Geometry I | 4 |
| CORE | 9 |
| TOTAL | 17 |

| Course | CR |
|--------------------------------------|-----------|
| PH 136/L - Physics II + Lab | 4 |
| MT 136 - Calc & Analytic Geometry II | 4 |
| CORE | 9 |
| TOTAL | 17 |

yr.2

| | |
|---------------------------------------|-----------|
| EP 235 - Eng. Phys. Applications | 3 |
| CH 141/3 - Gen. Chemistry I + Lab | 5 |
| MT 233 - Calc & Analytic Geometry III | 4 |
| PH 348 - Physis Seminar I | 0 |
| CORE | 6 |
| TOTAL | 18 |

| | |
|--------------------------------------|--------------|
| PH 246 - Modern Physics | 3 |
| EP 217 or MT 234 | 3 |
| EP 260/L or EP251 | 3-4 |
| CH 142/144 - Gen. Chemistry II + Lab | 5 |
| CORE | 3 |
| TOTAL | 17-18 |

yr.3

| | |
|---------------------------------------|-----------|
| *PH 315 OR **PH 445 | 3 |
| CS 128/L - Intro Soft. App. Dev.+ Lab | 4 |
| PH 349 - Physics Seminar II | 0 |
| CORE | 10 |
| TOTAL | 17 |

| | |
|--------------------------------|--------------|
| *EP 325 OR **EP 365 | 3-4 |
| EP 347 Eperimental Methods Lab | 3 |
| CORE | 9 |
| TOTAL | 15-16 |

* offered odd years

** offered even years

EP 260/L - DC/AC Circuits + lab

EP 251 - Computation in Phys. & Engineering

MT 234 - Intro to Differential Equation

EP 217 - Math Methods for Phys. & Engineering

PH 315 - Classical Mechanics

EP 365 - Electricity & Magnetism

PH 445 - Quantum Physics

EP 325 - Thermodynamics

PH 407/8 + X CR of upper division electives will transfer back from CWRU to complete JCU major

major requirement

major support course

JCU CORE: 46 CR shown in this example

CWRU 3/2 additional requirement

min. credits before transferring 90

min. credits before graduating 120

Notes: This is only a sample sequence of courses which will satisfy major requirements from the 22-23 Undergraduate Bulletin. Each individual student should work with a department faculty member to customize as necessary. The example layout of Core credits is for students required to take 46 credits of CORE, which includes 2 semesters of foreign language and 1 semester of written expression. It is not required that the Core courses are completed before transferring to CWRU, but it is highly desired. Students may lighten the regular semester course load by taking a course or courses in the summer.

