

(1) Graduation Requirements (卒業要件)

| Course Classifications 授業科目分類 | | Department of Physical Science and Engineering 物理工学科 | | | |
|---|---|--|------------------------------|----------------|-----------------|
| | | Fundamental and Applied Physics 物理系プログラム | | | |
| | | Compulsory 必修 | Compulsory Elective 選必 | Elective 選択 | Total 合計 |
| Courses relating to a specialized field 工学部専門系科目 | Basic Specialized Courses (専門基礎科目) Number of Credits Offered (開講単位数) Minimum Credits Required (取得要求単位数) | 25 25 | | 12.5 6 | 37.5 31 |
| | Specialized Courses (専門科目) Number of Credits Offered (開講単位数) Graduation Research (卒業研究) Minimum Credits Required (取得要求単位数) | 27.5 5 32.5 | 10.5 | 4 5 2 | 42 5 42.5 |
| | Related Specialized Courses (関連専門科目) Number of Credits Offered (開講単位数) Minimum Credits Required (取得要求単位数) | | | 12 3.5 | 12 3.5 |
| | Total (小計) Number of Credits Offered (開講単位数) Graduation Research (卒業研究) Minimum Credits Required (取得要求単位数) | 52.5 5 57.5 | 10.5 | 28.5 11.5 | 91.5 5 77 |
| | Method of Completion (履修方法) | Compulsory 52.5 credits (必修 52.5単位) Graduation Research 5 credits (卒業研究 5単位) Elective at least 19.5(8) credits (選択 19.5(8)単位以上) Total at least 77 credits (合計 77単位以上) | | | |
| | Basic General Education Courses (全学基礎科目) First Year Seminar (基礎セミナー) Language and Culture (言語文化) Japanese, German, French, Russian, Chinese, Spanish, Korean (日本語, ドイツ語, フランス語, ロシア語, 中国語, スペイン語, 朝鮮・韓国語) Health and Sports Sciences (健康・スポーツ科学) | at least 16 credits (16単位以上) at least 2 credits (2単位以上) at least 12 credits (12単位以上) at least 12 credits (12単位以上) | | | |
| | Basic Courses in Humanities and Social Sciences (文系基礎科目) Liberal Education Courses in Humanities and Social Sciences (文系教養科目) | at least 4 credits (4単位以上) | | | |
| | Basic Courses in Natural Sciences (理系基礎科目) Mathematics (数学関係) Physics (物理学関係) Chemistry (化学関係) Biology (生物学関係) Earth science (地球科学関係) | at least 23 credits (23単位以上) Must acquire a total of at least 8 credits from Calculus I, II, Linear Algebra I, II or Complex Analysis. A total of 9.5 credits from Fundamentals of Physics I, II, III, IV and Laboratory in Physics are compulsory. A total of 5.5 credits from Fundamentals of Chemistry I, II and Laboratory in Chemistry are compulsory. (微分積分学 I, II, 線形代数学 I, II, 複素関数論から計8単位以上, 物理学基礎 I, II, III, IV, 物理学実験の計9.5単位は必修。化学基礎 I, II, 化学実験の計5.5単位は必修。) | | | |
| | Liberal Education Courses in Natural Sciences (理系教養科目) Liberal Education Courses in Interdisciplinary Fields (全学教養科目) Method of Completion (履修方法) | at least 4 credits (4単位以上) at least 2 credits (2単位以上) Total at least 53 credits (合計 53単位以上) | | | |
| | Credits required for Graduation (卒業必要単位数) | at least 130 credits (130単位以上) | | | |

(2) Advancement Requirements (進級要件)

| Assessment year 判定年次 | Course Categories (科目区分) | Minimum Courses/Credits Required (最低必要科目数/単位数) | Requirements (条件等) |
|---------------------------------------|--|---|---|
| At the end of the 1st year (1年終了時) | Basic Courses in Natural Sciences (理系基礎科目) | 5 Subjects (5科目) | Must acquire credits for at least 5 subjects from Basic Courses in Natural Sciences. 理系基礎科目を5科目以上修得すること。 |
| At the end of the 2nd year (2年終了時) | Basic General Education Courses, Basic Courses in Humanities and Social Sciences, Liberal Education Courses in Humanities and Social Sciences, Basic Courses in Natural Sciences, Liberal Education Courses in Natural Sciences, Liberal Education Courses in Interdisciplinary Fields (全学基礎科目, 文系基礎科目, 文系教養科目, 理系基礎科目, 理系教養科目, 全学教養科目) | 41 credits (41単位) | 1 Basic General Education Courses (一 全学基礎科目) Must acquire a total of at least 10.5 "Language and Culture" credits from Japanese, German, French, Russian, Chinese, Spanish, and Korean. 「言語文化」として日本語, ドイツ語, フランス語, ロシア語, 中国語, スペイン語, 朝鮮・韓国語のうち10.5単位以上を修得すること。 2 Basic Courses in Natural Sciences (二 理系基礎科目) Must acquire at least 17.5 credits from Basic Courses in Natural Sciences, including 1.5 credits from Laboratory in Physics. 理系基礎科目は, 物理学実験1.5単位を含む17.5単位以上修得すること。 |