

物理学類 <学士(理学)> コンピテンス一覧
College of Physics Competence List
<Bachelor of Science>

■汎用コンピテンス(学士課程) Generic Competences(Bachelor Program)

1	コミュニケーション能力 Communication ability	母語や外国語を適切に用いるとともに、各種メディアを利用したプレゼンテーション等を行うコミュニケーション能力 Communication ability to use the mother tongue and foreign languages properly and make presentations, etc. using various media
2	批判的・創造的思考力 Ability for critical and creative thinking	一般的・専門的知識の体系的理解をベースに批判的・創造的に思考する能力 Ability to think critically and creatively based on systematic understanding of general and specialized knowledge
3	データ・情報リテラシー Data and information literacy	様々な事象や情報を数量的手法やコンピュータ等を用いて適切に解析・処理する能力 Ability to properly analyze and process various events and information using quantitative methods, computers, etc.
4	広い視野と国際性 Broad perspective and international character	自身の専門に留まらず文化・社会と自然・物質に関して幅広く理解し、異文化を理解・尊重する能力 Ability to broadly understand culture, society, nature, and materials and understand and respect different cultures and be not only involved in one's own expertise
5	心身の健康と人間性・倫理性 Mental and physical health, humanity, and ethics	芸術やスポーツへの理解と実践等を通して心と身体の健康を保ち、人間性と倫理性を有する市民としての責任を自覚して実践する能力 Ability to maintain mental and physical health through the understanding, practice, etc. of arts and sports and be conscious of one's responsibility and put it into practice as a citizen with humanity and ethics
6	協働性・主体性・自律性 Cooperative, independent, and autonomous attitudes	チームワークやリーダーシップを通して様々な物事に対処し自己を管理しながら自律的に学び続け行動する能力 Ability to keep learning and act autonomously while dealing with a situation through team work and leadership and practicing self-management

■専門コンピテンス Specific Competences

1	自然科学の理解 Understanding natural sciences	自然科学の基礎となる概念や考え方を理解し、問題を解く能力 Students have acquired basic knowledge of natural science and scientific thinking methods
2	古典物理学の理解 Understanding classical physics	古典物理学の基礎となる概念や考え方を理解し、問題を解く能力 Abilities for understanding concepts and ways of thinking that are bases for natural science and for solving problems
3	現代物理学の理解 Understanding modern Physics	現代物理学の基礎となる概念や考え方を理解し、問題を解く能力 Abilities for understanding concepts and ways of thinking that are bases for the Introduction to Modern Physics.
4	専門物理学の理解 Understanding specialized physics	自然現象を物理学の原理に基づき理解し、物理学一般に関する幅広い知識と多様な研究手法についての知識を習得する能力 Ability to understand natural phenomena based on the principles of physics and to acquire a broad knowledge of physics in general and of diverse research methods
5	計算分析能力 Computational analysis skills	計算プログラムを理解・実装し、その解析結果を物理学的に正しく分析・考察できる能力 Ability to understand and implement computational programs, and to correctly analyze and discuss the results of the analysis from a physics perspective
6	実験分析能力 Ability to analyze experiments	実験の原理および操作を理解し、その解析結果を物理学的に正しく分析・考察できる能力 Ability to understand the principles and operations of experiments and to analyze and discuss the results of the analysis correctly from a physics point of view
7	専門的対話能力 Professional dialogue skills	物理学の内容を英語等で表現および議論する能力 Ability to expressing and discussing physics in English
8	課題解決能力 Problem-solving skills	自ら物理学における課題を探求し、その課題を解く能力 Abilities for pursuing and solving inquiries into physics and assignments for students

