

部局名 Graduate School	先端物質科学研究科 Graduate School of Advanced Sciences of Matter	
専攻 Major	Department of Quantum Matter, Department of Molecular Biotechnology, Department of Semiconductor Electronics and Integration Science	
出願期間 Application Period	Application deadline: 【Special Selection for International Students】 December for April enrollment, June for October enrollment	
出願書類 Required Documents	【Special Selection for International Students】Application form (prescribed form), Resume (prescribed form), Examination card (prescribed form), Official grade academic transcripts issued by all universities and graduate schools attended, Official certificate of Master's degree and one copy of Master's thesis, Proposed plan of study, List of publication, A letter of recommendation (prescribed form), Records of English language tests (TOEFL(R), TOEIC(R), or equivalent)	
選考方法 Selection Method	【Special Selection for International Students】Applicants will be selected after a thorough review of their submitted materials and a direct interview test by e-mails or the Internet.	
試験実施日 Examination Day	【Special Selection for International Students】 Examination day will be announced individually to the applicants.	
入学時期 Admission Semester	April, October	
研究科担当係 Contact Details	部署名 Section	Student Support Office, Graduate School of Advanced Sciences of Matter
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研究科概要 Graduate School Outline 研究キーワード Research Key Words	<p>【Outline】 The Graduate School of Advanced Sciences of Matter (AdSM) is composed of science research groups that seek to explore fundamental principles of matter and life forms, and engineering research groups engaging in advanced technological development to use those fundamental principles to benefit humanity. Science and engineering research groups face common challenges in cutting-edge science and technology and we are tackling these challenges from a different perspective. Material science and life science engage in active collaboration and integration to bring about great advances in researches to solve problems beyond the conventional bounds of those fields. Therefore, three departments of AdSM (Quantum Matter, Molecular Biotechnology, Semiconductor Electronics and Integration Science) are cooperating to work on education and research.</p> <p>Due to progress in science and technology, and globalization of the society, post-graduate degree holders are expected to play increasingly important roles in society. They are expected to not only acquire proficiency in research approach and advanced technics in their specialized fields, but also attempt to solve the various issues present in the international society with interdisciplinarity, high aspiration and practical abilities.</p> <p>To meet these demands, AdSM carries out its education in a new and different way. Integrated subjects which are introductory courses outside their specialization, communication subjects and practical career subjects in addition to well-developed subjects within the major are provided in AdSM. Additionally, special programs are offered through joint projects between AdSM and other research institutions and corporate collaborators. In 2007, an educational program on integrated semiconductor and biotechnology was opened to students of all departments. AdSM offers this program to nurture the next generation of researchers and engineers.</p> <p>【Key Words】 Theory of Condensed Matter Physics/ Magnetism and Low Temperature Physics/ Beam Physics/ High Energy Physics/ Semiconductor Quantum Optics/ Energy Storage Materials/ Material Science of Nanotechnology/ Cell Biochemistry/ Molecular Biochemistry/ Metabolic Engineering/ Molecular and Chemical Cell Biology/ Molecular Biotechnology/ Cell Engineering/ Genome Biotechnology/ Metabolic Biochemistry/ Metabolic Genetics/ Interdisciplinary Research on Integration of Semiconductor and Biotechnology/ Semiconductor Electronics/ Electron Device Engineering/ Frontier Integrated Systems / Nanodevice Engineering/ Nanoprocess Engineering/ Intelligent Integrated Circuits Engineering/ Nanobio Electromagnetics Engineering/ Optical Integrated Waveguide Devices/ Micro Electro-Mechanical System (MEMS)/ Transistor Modeling</p>	
研究科HPアドレス Website	https://www.hiroshima-u.ac.jp/en/adsm	
その他特記事項 Others		