

授業科目	単位	対応する科目
実践的物質理工学特論Ⅰ	2	理学[物理学専攻] 「専門科目」中の科目(特別研修2科目・特別研究Ⅰ～Ⅲを除く) 理学[化学専攻] 「専門科目」中の科目(特別研修2科目・化学特別研究Ⅰ～Ⅵを除く) 理学[数学専攻] 「専門科目」中の科目(特別研修4科目・特別研究5科目を除く、特別セミナーは6単位中2単位) 理学[天文学専攻] 「専門科目」中の科目(特別研修2科目・特別研究4科目を除く、特別セミナーは6単位中2単位) 工学[金属フロンティア工学専攻、知能デバイス材料工学専攻、材料システム工学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 工学[応用化学専攻] 「学際基盤科目」中の科目 工学[機械機能創成専攻] 「学際基盤科目」中の科目 工学[電子工学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 工学[応用物理学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 情報科学[システム情報科学専攻] 「専門科目」中の博士ゼミナール 環境科学[先進社会環境学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 環境科学[先端環境創成学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 薬学[分子薬科学専攻] 「専門科目」中の特別演習22科目(4単位中2単位)
実践的物質理工学特論Ⅱ	2	理学[物理学専攻] 「専門科目」中の科目(特別研修2科目・特別研究Ⅰ～Ⅲを除く) 理学[化学専攻] 「専門科目」中の科目(特別研修2科目・化学特別研究Ⅰ～Ⅵを除く) 理学[数学専攻] 「専門科目」中の科目(特別研修4科目・特別研究5科目を除く、特別セミナーは6単位中2単位) 理学[天文学専攻] 「専門科目」中の科目(特別研修2科目・特別研究4科目を除く、特別セミナーは6単位中2単位) 工学[金属フロンティア工学専攻、知能デバイス材料工学専攻、材料システム工学専攻] 「専門科目」中の特別研修科目(4単位中2単位) 工学[応用化学専攻] 「学際基盤科目」中の科目 工学[機械機能創成専攻] 「学際基盤科目」中の科目 工学[電子工学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 工学[応用物理学専攻] 「学際基盤科目」中の科目(インターンシップを除く) 情報科学[システム情報科学専攻] 「専門科目」中の情報教育デザイン特別ゼミナールⅡ、ビックデータチャレンジ 環境科学[先進社会環境学専攻] 「専門科目」中の先進社会環境学博士セミナー(4単位中2単位) 環境科学[先端環境創成学専攻] 各コース「専門科目」中の博士セミナー・国際セミナー(何れも4単位中2単位) 薬学[分子薬科学専攻] 「専門科目」中の特別演習22科目(4単位中2単位)
実践的物質理工学特論Ⅲ	2	理学[物理学専攻] 「専門科目」中の科目(特別研修2科目・特別研究Ⅰ～Ⅲを除く) 理学[化学専攻] 「専門科目」中の科目(特別研修2科目・化学特別研究Ⅰ～Ⅵを除く) 理学[数学専攻] 「専門科目」中の科目(特別研修4科目・特別研究5科目を除く、特別セミナーは6単位中2単位) 理学[天文学専攻] 「専門科目」中の科目(特別研修2科目・特別研究4科目を除く、特別セミナーは6単位中2単位) 工学[金属フロンティア工学専攻、知能デバイス材料工学専攻、材料システム工学専攻] 「専門科目」中の特別研修科目(4単位中2単位) 工学[応用化学専攻] 「専門科目」中の特別研修科目 工学[機械機能創成専攻] 「専門科目」中の科目(博士研修を除く) 工学[電子工学専攻] 「専門科目」中の電子工学特別研修 工学[応用物理学専攻] 「専門科目」中の科目(博士研修を除く) 情報科学[システム情報科学専攻] 「専門科目」中のビックデータチャレンジ、先進セミナーⅠ～Ⅱ 環境科学[先進社会環境学専攻] 「専門科目」中の先進社会環境学博士セミナー(4単位中2単位) 環境科学[先端環境創成学専攻] 各コース「専門科目」中の博士セミナー・国際セミナー(何れも4単位中2単位) 薬学[分子薬科学専攻] 「専門科目」中の特別演習22科目(4単位中2単位)
博士研修	8	各専攻における博士研修、特別研究の8単位

Applicable subjects to "Special lecture for practical materials science and engineering I ~ III and "Doctoral Course Seminar"

Subject	Credit	Applicable subjects
Special lecture for practical materials science and engineering I	2	<p>Sci. [Physics] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Advanced research I ~ III")</p> <p>Sci. [Chemistry]: Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Special Research in Chemistry I ~ VI")</p> <p>Sci. [Math.] Subject categorized in "Specialized courses" (Except for 4 subjects of Internship and 5 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Sci. [Astro.] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and 4 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Eng. [Materials] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Eng. [Appl. Chem] Subject categorized in "Interdisciplinary basic subjects"</p> <p>Eng. [Mech] Subject categorized in "Interdisciplinary basic subjects"</p> <p>Eng. [Elec] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Eng. [Appl. Phys] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Info. Sci. [System Info. Sci] "Advanced Doctor Course Seminar"</p> <p>Env. [Adv. Society] Subject categorized in "Basic subjects for Interdisciplinary Fields" (except for "Internship for Doctor Course Students")</p> <p>Env. [Frontier Sci] Subject categorized in "Basic subjects for Interdisciplinary Fields" (except for "Internship for Doctor Course Students")</p> <p>Phar. [Molecular Pharmaceutical Sciences] "Advanced Exercise" (22 subjects) categorized in "Specialized Subjects" (2 out of 4 credits)</p>
Special lecture for practical materials science and engineering II	2	<p>Sci. [Physics] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Advanced research I ~ III")</p> <p>Sci. [Chemistry]: Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Special Research in Chemistry I ~ VI")</p> <p>Sci. [Math.] Subject categorized in "Specialized courses" (Except for 4 subjects of Internship and 5 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Sci. [Astro.] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and 4 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Eng. [Materials] "Advanced seminar" categorized in "Major General Subjects" (2 out of 4 credits)</p> <p>Eng. [Appl. Chem] Subject categorized in "Interdisciplinary basic subjects"</p> <p>Eng. [Mech] Subject categorized in "Interdisciplinary basic subjects"</p> <p>Eng. [Elec] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Eng. [Appl. Phys] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Info. Sci. [System Info. Sci] "Advanced Doctoral Seminar on Information Literacy and Education Design II", "Big Data Challenge"</p> <p>Env. [Adv. Society] "Advanced Seminar on Environmental Studies for Advanced Society" (2 out of 4 credits) categorized in "Subjects for Specialized Fields"</p> <p>Env. [Frontier Sci] 4 subjects of "Advanced Seminar" categorized in "Subjects for Specialized Fields" (2 out of 4 credits)</p> <p>Phar. [Molecular Pharmaceutical Sciences] 22 subjects of "Advanced Exercise" categorized in "Specialized Subjects" (2 out of 4 credits)</p>
Special lecture for practical materials science and engineering III	2	<p>Sci. [Physics] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Advanced research I ~ III")</p> <p>Sci. [Chemistry]: Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and "Special Research in Chemistry I ~ VI")</p> <p>Sci. [Math.] Subject categorized in "Specialized courses" (Except for 4 subjects of Internship and 5 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Sci. [Astro.] Subject categorized in "Specialized courses" (Except for 2 subjects of Internship and 4 subjects of "Advanced Research". 2 out of 6 credits of "Advanced Seminar" are</p> <p>Eng. [Materials] "Advanced seminar" categorized in "Major General Subjects" (2 out of 4 credits)</p> <p>Eng. [Appl. Chem] "Advanced seminar" categorized in "Major General Subjects"</p> <p>Eng. [Mech] Subject categorized in "Interdisciplinary basic subjects" (except for "Internship training")</p> <p>Eng. [Elec] "Advanced Seminar on Electronic Engineering" categorized in "Interdisciplinary basic subjects"</p> <p>Eng. [Appl. Phys] Seminar categorized in "Major General Subjects" (except for "Internship training")</p> <p>Info. Sci. [System Info. Sci] "Big Data Challenge", "Advanced Seminar I ~ II"</p> <p>Env. [Adv. Society] "Advanced Seminar on Environmental Studies for Advanced Society" categorized in "Subjects for Specialized Fields" (2 out of 4 credits)</p> <p>Env. [Frontier Sci] 4 subjects of "Advanced Seminar" categorized in "Subjects for Specialized Fields" (2 out of 4 credits)</p> <p>Phar. [Molecular Pharmaceutical Sciences] 22 subjects of "Advanced Exercise" categorized in "Specialized Subjects" (2 out of 4 credits)</p>
Doctoral Course Seminar	8	8 credits of "Doctoral Course Seminar" or "Advanced Research" offered in the department a student belongs to.