

物質・材料工学専攻[3年制博士課程]の修了要件に係る所要科目及び必要単位数等(平成30年度入学者適用)

専攻の教育に必要とする内容				
		科目区分	科目群	単位
	基礎的な内容	基礎科目		
		専門基礎科目		
必修	専門的な内容	専門科目	物質・材料工学専攻共通	「物質・材料工学セミナーⅠA」 0.5 「物質・材料工学セミナーⅠB」 0.5 「物質・材料工学セミナーⅡA」 0.5 「物質・材料工学セミナーⅡB」 0.5 「物質・材料工学特別研究ⅠA」 3 「物質・材料工学特別研究ⅠB」 3 「物質・材料工学特別研究ⅡA」 3 「物質・材料工学特別研究ⅡB」 3 「物質・材料工学特別研究ⅢA」 3 「物質・材料工学特別研究ⅢB」 3
自由	その他基礎的または専門的な内容	科目区分・科目群は問わない。		
合計単位数				20

社会人特別選抜入学者(14条特例適用者)に係る履修上の注意 大学院の課程においては、教育上特別の必要があると認められる場合には、夜間その他特定の時間又は時期において授業又は研究指導を行う等の適当な方法により教育を行うことができる。(大学院設置基準第14条)	
早期修了者に係る履修上の注意 (早期修了プログラム含む) 在学期間に関しては、優れた業績を上げた者については、大学院に一年以上在学すれば足りるものとする。(大学院設置基準第16条ただし書きの適用)	・優れた研究業績を上げた者と認められた者は、所定の手続きにより認定を受けることによって、在学期間が3年未満でも修了することができる。 1年次修了の場合は、「物質・材料工学セミナーⅡA」「物質・材料工学セミナーⅡB」「物質・材料工学特別研究ⅡA」「物質・材料工学特別研究ⅡB」(2年次対象)、「物質・材料工学特別研究ⅢA」「物質・材料工学特別研究ⅢB」(3年次対象)の履修を早期に認める。 2年次修了の場合には、「物質・材料工学特別研究ⅢA」「物質・材料工学特別研究ⅢB」(3年次対象)の履修を早期に認める。

修了要件 博士後期課程及び3年制博士課程の修了要件は、大学院学則第43条第1項及び第2項に定めるところによるものとし、本研究科が専攻ごとに定めた所要科目を必要な単位数以上修得しなければならない。(数理物質科学研究科の教育に係る基本的な細則第11条抜粋)	・本専攻の定める基準に基づき所定の単位を修得し、博士論文の審査及び最終試験に合格すること
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(注)

1. 本表に掲げる単位数は、修了に必要な最小の数値を示す。
2. 原則として、同一授業科目名の単位を重複して修得することはできない。

(特記事項)

1. 平成24年度以前入学者については、当該入学年度の大学院便覧の修了要件における「物質・材料工学セミナーⅠ」「物質・材料工学セミナーⅡ」「物質・材料工学特別研究Ⅰ」「物質・材料工学特別研究Ⅱ」「物質・材料工学特別研究Ⅲ」を、それぞれ「物質・材料工学セミナーⅠA及び物質・材料工学セミナーⅠB」「物質・材料工学セミナーⅡA及び物質・材料工学セミナーⅡB」「物質・材料工学特別研究ⅠA及び物質・材料工学特別研究ⅠB」「物質・材料工学特別研究ⅡA及び物質・材料工学特別研究ⅡB」「物質・材料工学特別研究ⅢA及び物質・材料工学特別研究ⅢB」に読み替えるものとする。

Required subjects and number of credits, etc., required for the completion of the Doctoral Program in Materials Science and Engineering (applicable for students enrolled in AY2018)

Content required for the completion of major				
		Category and Subject Group	Credit	
Core	Basic content			
	Advanced content	Advanced Common Subjects for Doctoral Program in Materials Science and Engineering	"Seminar in Materials Science and Engineering IA"	0.5
			"Seminar in Materials Science and Engineering IB"	0.5
			"Seminar in Materials Science and Engineering IIA"	0.5
			"Seminar in Materials Science and Engineering IIB"	0.5
			"Research in Materials Science and Engineering IA"	3
			"Research in Materials Science and Engineering IB"	3
			"Research in Materials Science and Engineering IIA"	3
			"Research in Materials Science and Engineering IIB"	3
		"Research in Materials Science and Engineering IIIA"	3	
		"Research in Materials Science and Engineering IIIB"	3	
Elective	Other basic or advanced content			
Total number of credits			20	

<p>Precautions suggested for students who have qualified under the special selection system for working people (these are students who are granted a special exception under Article 14)</p> <p>The education of vital postgraduate subjects can be carried out in a proper manner by employing such measures as conducting classes or research instructions at night or other specially-arranged times or periods (Article 14 of the postgraduate college installation standard).</p>	
<p>Precautions suggested for early graduates while choosing courses (including the early completion program)</p> <p>One year or more spent enrolled at a postgraduate college is sufficient for students who show excellent academic results (The provision in Article 16 of the postgraduate college installation standard is applied in such cases).</p>	<p>- A student who is accepted as having showed excellent academic results can complete his/her school term by receiving the certification following the predefined procedure even if the actual number of school days covered by the student is less than three years.</p> <p>On the completion of the first year, taking following classes early is acceptable: the "Seminar in Materials Science and Engineering IIA," the "Seminar in Materials Science and Engineering IIB," the "Research in Materials Science and Engineering IIA," the "Research in Materials Science and Engineering IIB," (2nd year target) and "Research in Materials Science and Engineering IIIA," the "Research in Materials Science and Engineering IIIB" (3rd year target).</p> <p>On the completion of the 2nd year, taking early the "Research in Materials Science and Engineering IIIA" and the "Research in Materials Science and Engineering IIIB" (3rd year target) is acceptable.</p>
<p>Completion requirement</p> <p>The completion requirements of the doctoral course and the three-year doctor's course are defined in sections 1 and 2 of Article 43 of the postgraduate college code; the subjects for each major of this graduate course should be chosen such that the combination exceeds the necessary number of credits. (quoted from Article 11 of the basic detailed regulations related to the Graduate School of Pure and Applied Sciences)</p>	<p>Earn/Complete the predefined credits based on the standard decided by this major and pass the review of the doctoral thesis and the final examination.</p>

(Remarks)

1. The number of credits shown in this table shows the minimum value required for the completion of the course.
2. As a general rule, it is not possible to earn credits of the same subject twice.

(Special Note)

1. For students enrolled in/before AY2012, we convert credits for the "completion requirement" that the catalogs issued in those years show: Seminar in Materials Science and Engineering I into "Seminar in Materials Science and Engineering IA and Seminar in Materials Science and Engineering IB," Seminar in Materials Science and Engineering II into "Seminar in Materials Science and Engineering IIA and Seminar in Materials Science and Engineering IIB," Research in Materials Science and Engineering I into "Research in Materials Science and Engineering IA and Research in Materials Science and Engineering IB," Research in Materials Science and Engineering II into "Research in Materials Science and Engineering IIA and Research in Materials Science and Engineering IIB," Research in Materials Science and Engineering III into "Research in Materials Science and Engineering IIIA and Research in Materials Science and Engineering IIIB."