

# Graduation/Promotion Requirements 2026

NAGOYA UNIVERSITY  
G30 INTERNATIONAL PROGRAM  
SCHOOL OF ENGINEERING

名古屋大学工学部教授要目  
2026年度グローバル30国際プログラム入学生用

School of Engineering (for Undergraduates Enrolled in October 2026)



## (1) Graduation Requirements (卒業要件)

| Course Classifications<br>授 業 科 目 分 類                      |                                                           | Department of Chemistry and Biotechnology<br>化学生命工学科                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                |             |
|------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|-------------|
|                                                            |                                                           | Chemistry<br>化学系プログラム                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                |             |
|                                                            |                                                           | Compulsory<br>必修                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compulsory<br>Elective<br>選必 | Elective<br>選択 | Total<br>合計 |
| Courses relating to a specialized field<br>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)                         | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 32             | 60          |
|                                                            | Minimum Credits Required (取得要求単位数)                        | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 16             | 44          |
|                                                            | Specialized Courses (専門科目)                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Number of Credits Offered (開講単位数)                         | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | 20             | 28          |
|                                                            | Graduation Research (卒業研究)                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 0              | 10          |
|                                                            | Minimum Credits Required (取得要求単位数)                        | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 18             | 36          |
|                                                            | Related Specialized Courses (関連専門科目)                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Number of Credits Offered (開講単位数)                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              | 10             | 10          |
|                                                            | Minimum Credits Required (取得要求単位数)                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              | 2              | 2           |
| Liberal Arts and Sciences<br>全 学 教 育 科 目                   | Total (小計)                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Number of Credits Offered (開講単位数)                         | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 62             | 98          |
|                                                            | Graduation Research (卒業研究)                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                | 10          |
|                                                            | Minimum Credits Required (取得要求単位数)                        | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 36             | 82          |
|                                                            | Method of Completion (履修方法)                               | Compulsory 36 credits (必修 36単位)<br>Graduation Research 10 credits (卒業研究 10単位)<br>Elective at least 36 credits (選択 36単位以上)<br>Total at least 82 credits (合計 82単位以上)                                                                                                                                                                                                                                                                                                                           |                              |                |             |
|                                                            | Common Basic Courses (共通基礎科目)                             | at least 22 credits (22単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                |             |
|                                                            | Introduction to skills for academic success (「大学での学び」基礎論) | 1 credit (1単位)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |
|                                                            | First Year Seminar (基礎セミナー)                               | at least 2 credits (2単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                |             |
|                                                            | Language and Culture (言語文化科目)                             | at least 14 credits (14単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                |             |
|                                                            | Japanese (日本語)                                            | at least 8 credits (8単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                |             |
| Liberal Arts and Sciences<br>全 学 教 育 科 目                   | Japanese/English/Second Foreign Language (日本語/英語/初修外国語)   | at least 6 credits (6単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                |             |
|                                                            | Health and Sports Sciences (健康・スポーツ科学)                    | at least 2 credits (2単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                |             |
|                                                            | Data Science (データ科学)                                      | 2 credits (2単位)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Introduction to Data Science (データ科学基礎)                    | 1 credit (1単位)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |
|                                                            | Data Science Exercise (データ科学基礎演習)                         | 1 credit (1単位)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |
|                                                            | Entrepreneurship(アントレプレナーシップ)                             | 1 credit (1単位)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |
|                                                            | Liberal Arts Courses (教養科目)                               | at least 4 credits (4単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                |             |
|                                                            | Global Liberal Arts Courses (国際理解科目)                      | Must acquire 2 credits from Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of arts and sciences).                                                                                                                                                                                                                                                                                                                                                |                              |                |             |
|                                                            | Contemporary Liberal Arts (現代教養科目)                        | Must acquire 2 credits from Global Liberal Arts Courses or Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of arts and sciences) or Problem/Project Based Learning Seminar.                                                                                                                                                                                                                                                                       |                              |                |             |
|                                                            | Problem/Project Based Learning Seminar (超学部セミナー)          | (現代教養科目(人文・社会系及び学際・融合系)から2単位必修。国際理解科目、現代教養科目(人文・社会系及び学際・融合系)、超学部セミナーから2単位選択必修。)                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
| Liberal Arts and Sciences<br>全 学 教 育 科 目                   | Basic Courses for Specialized Fields (分野別基礎科目)            | at least 26 credits (26 単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                |             |
|                                                            | Basic Courses in Natural Sciences (自然系基礎科目)               | Must acquire a total of at least 8 credits from Calculus I, II, Linear Algebra I, II or Complex Analysis. A total of 8 credits from Fundamentals of Physics I, II, III and Laboratory in Physics are compulsory. A total of 6 credits from Fundamentals of Chemistry I, II, Laboratory in Chemistry are compulsory. A total of 4 credits from Fundamentals of Biology I, II 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、物理学実験の8単位は必修。化学基礎Ⅰ、Ⅱ、化学実験の計6単位は必修。生物学基礎Ⅰ、Ⅱの計4単位は必修。) |                              |                |             |
|                                                            | Mathematics (数学関係)                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Physics (物理学関係)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Chemistry (化学関係)                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Biology (生物学関係)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                                            | Method of Completion (履修方法)                               | Total at least 52 credits (合計 52単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                |             |
|                                                            | Credits required for Graduation (卒業必要単位数)                 | at least 134 credits (134単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |

## (2) Advancement Requirements (進級要件)

| Assessment<br>year<br>年度                          | Course Categories (科目区分)                                                                                      | Minimum Courses/Credits Required<br>(最低必要科目数/単位数) | Requirements (条件等)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At the end<br>of the 2nd<br>grade<br>(2 年<br>終了時) | Common Basic Courses<br>Liberal Arts Courses<br>Basic Courses for Specialized Fields<br>(共通基礎科目、教養科目、分野別基礎科目) | 40credits (40単位)                                  | 1 Common Basic Courses (一 共通基礎科目)<br>Must acquire a total of at least 12 "Language and Culture" credits from Japanese, English or Second Foreign Language.<br>*Please note that if you choose Second Foreign Languages for Compulsory Elective( Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation.<br><br>「言語文化科目」として日本語、英語及び初修外国語から12単位以上修得すること。<br>※ただし、初修外国語を含む場合は、卒業にはドイツ語、フランス語、ロシア語、中国語、スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。<br><br>2 Basic Courses in Natural Sciences (二 自然系基礎科目)<br>Must acquire at least 18 credits from Basic Courses in Natural Sciences(*from the courses required for graduation above).<br>自然系基礎科目は、上記の卒業に必要な科目のうちから18単位以上修得すること。 |

## ○ Department of Chemistry and Biotechnology, Chemistry Program

## 化学生命工学科 (化学系プログラム)

## Basic Specialized Courses

## 専 門 基 礎 科 目

| 授 業 科 目 名   | Course Title                             | Lecturer<br>担 当 教 員     |                                |  | Credits<br>単位数 | Starts (Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|-------------|------------------------------------------|-------------------------|--------------------------------|--|----------------|-------------------------------------------------|
| 数学演習 1 a    | Mathematics Tutorial 1a                  | RICHARD Serge Charles   | Designated Professor           |  | 1              | 1 Autumn Elective                               |
| 数学演習 1 b    | Mathematics Tutorial 1b                  | BACHMANN Henrik         | Associate Professor            |  | 1              | 1 Autumn Elective                               |
| 物理学基礎演習 1 a | Fundamental Physics Tutorial 1a          | ESCRIVA MANAS Alberto   | Designated Assistant Professor |  | 1              | 1 Autumn Elective                               |
| 物理学基礎演習 1 b | Fundamental Physics Tutorial 1b          | UMEHATA Hideki          | Designated Assistant Professor |  | 1              | 1 Autumn Elective                               |
| 数学演習 2 a    | Mathematics Tutorial II a                | BOURNE Christopher Jack | Associate Professor            |  | 1              | 1 Spring Elective                               |
| 数学演習 2 b    | Mathematics Tutorial II b                | BACHMANN Henrik         | Associate Professor            |  | 1              | 1 Spring Elective                               |
| 物理学基礎演習 2   | Fundamental Physics Tutorial II          | WOJDYLO John Andrew     | Professor                      |  | 1              | 1 Spring Elective                               |
| 分析化学        | Analytical Chemistry                     | SAMJESKE Gabor Arwed    | Professor                      |  | 2              | 2 Autumn Compulsory                             |
| 有機化学1       | Organic Chemistry I                      | SHIN Jiyoun             | Professor                      |  | 2              | 2 Autumn Compulsory                             |
| 物理化学1       | Physical Chemistry I                     | PHUNG Quan manh         | Associate Professor            |  | 2              | 2 Autumn Compulsory                             |
| 生化学 1       | Biochemistry I                           | KOJIMA Seiji            | Professor                      |  | 2              | 2 Autumn Elective                               |
| 細胞学 1       | Cell Biology I                           | NOMA Kentaro            | Associate Professor            |  | 2              | 2 Autumn Compulsory                             |
| 解析力学 1      | Analytical Mechanics I                   | SHIGEMORI Masaki        | Professor                      |  | 2              | 2 Autumn Elective                               |
| 数理物理学 1     | Mathematical Physics I                   | WOJDYLO John Andrew     | Professor                      |  | 2              | 2 Autumn Elective                               |
| 数理物理学演習 1   | Mathematical Physics Tutorial I          | IGURO Shuhei            | Designated Assistant Professor |  | 1              | 2 Autumn Elective                               |
| 統計物理学 1     | Statistical Physics I                    | ITO Yasumasa            | Professor                      |  | 2              | 2 Autumn Elective                               |
| 無機化学 1      | Inorganic Chemistry I                    | SAMJESKE Gabor Arwed    | Professor                      |  | 2              | 2 Spring Compulsory                             |
| 有機化学 2      | Organic Chemistry II                     | SHIN Jiyoun             | Professor                      |  | 2              | 2 Spring Compulsory                             |
| 物理化学 2      | Physical Chemistry II                    | PHUNG Quan manh         | Associate Professor            |  | 2              | 2 Spring Compulsory                             |
| 量子化学 1      | Quantum Chemistry I                      | PHUNG Quan manh         | Associate Professor            |  | 2              | 2 Spring Compulsory                             |
| 生化学 2       | Biochemistry II                          | KOJIMA Seiji            | Professor                      |  | 2              | 2 Spring Elective                               |
| 細胞学 2       | Cell Biology II                          | NOMA Kentaro            | Associate Professor            |  | 2              | 2 Autumn Elective                               |
| 電磁気学        | Electricity and Magnetism                | WOJDYLO John Andrew     | Professor                      |  | 2              | 2 Spring Elective                               |
| 無機化学 2      | Inorganic Chemistry II                   | SAMJESKE Gabor Arwed    | Professor                      |  | 2              | 3 Autumn Compulsory                             |
| 有機化学 3      | Organic Chemistry III                    | SHIN Jiyoun             | Professor                      |  | 2              | 3 Autumn Elective                               |
| 量子化学 2      | Quantum Chemistry II                     | PHUNG Quan manh         | Associate Professor            |  | 2              | 3 Autumn Compulsory                             |
| 地球惑星科学      | Earth and Planetary Science              | HUMBLET Marc Andre      | Associate Professor            |  | 2              | 3 Autumn Elective                               |
| 無機材料化学1     | Chemistry of Inorganic Materials I       | SAMJESKE Gabor Arwed    | Professor                      |  | 2              | 3 Autumn Compulsory                             |
| 量子化学 3      | Quantum Chemistry III                    | FUJIMOTO Kazuhiro       | Designated Associate Professor |  | 2              | 3 Spring Elective                               |
| 地球環境科学      | Earth Environmental Science              | HUMBLET Marc Andre      | Designated Associate Professor |  | 2              | 3 Spring Elective                               |
| 化学生命工学実験 1  | Chemistry and Biotechnology Laboratory 1 | Faculty of Chemistry    |                                |  | 3              | 3 Spring Compulsory                             |
| 化学生命工学実験 2  | Chemistry and Biotechnology Laboratory 2 | Faculty of Chemistry    |                                |  | 3              | 3 Spring Compulsory                             |
| 無機化学 3      | Inorganic Chemistry III                  | SAMJESKE Gabor Arwed    | Professor                      |  | 2              | 3 Spring Elective                               |

## Specialized Courses

## 専 門 科 目

5

| 授 業 科 目 名  | Course Title                               | Lecturer<br>担 当 教 員  |                     |  | Credits<br>単位数 | Starts (Elective/Compulsory)<br>開講時期及び<br>選択・必修 |            |
|------------|--------------------------------------------|----------------------|---------------------|--|----------------|-------------------------------------------------|------------|
| 生物物理学      | Biophysics                                 | TAMA Florence Muriel | Professor           |  | 2              | 2 Spring                                        | Elective   |
| 有機化学 5     | Organic Chemistry V                        | SHIN Jiyoung         | Professor           |  | 2              | 3 Autumn                                        | Elective   |
| 高分子化学      | Polymer Chemistry                          | Faculty of Chemistry |                     |  | 2              | 3 Autumn                                        | Elective   |
| 化学物理学      | Chemical Physics                           | UCHIHASHI Takayuki   | Professor           |  | 2              | 3 Autumn                                        | Elective   |
| 有機化学 4     | Organic Chemistry IV                       | SHIN Jiyoung         | Professor           |  | 2              | 3 Spring                                        | Elective   |
| 無機材料化学 2   | Chemistry of Inorganic Materials II        | SAMJESKE Gabor Arwed | Professor           |  | 2              | 3 Spring                                        | Elective   |
| 計算化学       | Computational Chemistry                    | YANAI Takeshi        | Professor           |  | 2              | 3 Autumn                                        | Elective   |
| 先端有機・高分子化学 | Current Organic and Polymer Chemistry      | Faculty of Chemistry |                     |  | 2              | 3 Spring                                        | Elective   |
| 生化学 4      | Biochemistry IV                            | NADANO Daita         | Associate Professor |  | 2              | 3 Spring                                        | Elective   |
| 細胞学 4      | Cell Biology IV                            | SHIBATA Hideki       | Professor           |  | 2              | 3 Spring                                        | Elective   |
| 化学生命工学実験 3 | Chemistry and Biotechnology Laboratory III | Faculty of Chemistry |                     |  | 3              | 4 Autumn                                        | Compulsory |
| 化学生命工学実験 4 | Chemistry and Biotechnology Laboratory IV  | Faculty of Chemistry |                     |  | 3              | 4 Autumn                                        | Compulsory |
| 特別演習 A     | Advanced Chemistry Tutorial A              | Faculty of Chemistry |                     |  | 1              | 4 Autumn                                        | Compulsory |
| 特別演習 B     | Advanced Chemistry Tutorial B              | Faculty of Chemistry |                     |  | 1              | 4 Spring                                        | Compulsory |
| 卒業研究 A     | Graduation Research A                      | Faculty of Chemistry |                     |  | 5              | 4 Autumn                                        | Compulsory |
| 卒業研究 B     | Graduation Research B                      | Faculty of Chemistry |                     |  | 5              | 4 Spring                                        | Compulsory |

## Related Specialized Courses

## 関 連 専 門 科 目

| 授 業 科 目 名    | Course Title                                                                          | Lecturer<br>担 当 教 員    |                      |                       | Credits<br>単位数 | Starts (Elective/Compulsory)<br>開講時期及び<br>選択・必修 |          |
|--------------|---------------------------------------------------------------------------------------|------------------------|----------------------|-----------------------|----------------|-------------------------------------------------|----------|
| 工学概論第 3      | Outline of Engineering III                                                            | LELEITO Emanuel Langat | Lecturer             | Gang Zeng<br>Lecturer | 2              | 3 Autumn                                        | Elective |
| 電気電子情報先端工学概論 | View of Advanced Electrical, Electronic and Information Engineering                   | Associated Faculty     |                      |                       | 2              | 3 Autumn                                        | Elective |
| 環境土木・建築学概論   | Introduction to Civil Engineering and Architecture                                    | Associated Faculty     |                      |                       | 2              | 3 Autumn                                        | Elective |
| 国際先端自動車工学 U1 | International Lectures on Advanced Technology and Trends in Automobile Engineering U1 | SAKAI Yasuhiko         | Designated Professor |                       | 1              | 3 Spring                                        | Elective |
| 国際先端自動車工学 U3 | International Lectures on Advanced Technology and Trends in Automobile Engineering U3 | SAKAI Yasuhiko         | Designated Professor |                       | 3              | 3 Spring                                        | Elective |

(1) Graduation Requirements (卒業要件)

| Course Classifications<br>授 業 科 目 分 類   |                 | Department of Electrical Engineerin, Electronics,<br>and Information Engineering<br>電気電子情報工学科                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                |             |
|-----------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|-------------|
|                                         |                 | Automotive Engineering<br>自動車工学プログラム                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                |             |
|                                         |                 | Compulsory<br>必修                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Compulsory<br>Elective<br>選必 | Elective<br>選択 | Total<br>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)<br>Number of Credits Offered (開講単位数)<br>Minimum Credits Required (取得要求単位数)                                                                                                                                                                                                                                                                                                                                                                                    |                              |                |             |
|                                         |                 | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | 11             | 48          |
|                                         |                 | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | 6              | 43          |
|                                         |                 | Specialized Courses (専門科目)<br>Number of Credits Offered (開講単位数)<br>Graduation Research (卒業研究)<br>Minimum Credits Required (取得要求単位数)                                                                                                                                                                                                                                                                                                                                                              |                              |                |             |
|                                         |                 | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | 32             | 48          |
|                                         |                 | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                | 10          |
|                                         |                 | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | 17.5           | 43.5        |
|                                         |                 | Related Specialized Courses (関連専門科目)<br>Number of Credits Offered (開講単位数)<br>Minimum Credits Required (取得要求単位数)                                                                                                                                                                                                                                                                                                                                                                                  |                              |                |             |
|                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              | 14             | 14          |
|                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              | 4              | 4           |
| Liberal Arts and Sciences               | 全 学 教 育 科 目     | Commom Basic Courses (共通基礎科目)<br>Introduction to skills for academic success (「大学での学び」基礎論)<br>First Year Seminar (基礎セミナー)<br>Language and Culture (言語文化科目)<br>Japanese (日本語)<br>Japanese/English/Second Foreign Language (日本語/英語/初修外国語)<br>Health and Sports Sciences (健康・スポーツ科学)<br>Data Science (データ科学)<br>Introduction to Data Science (データ科学基礎)<br>Data Science Exercise (データ科学基礎演習)<br>Entrepreneurship(アントレプレナーシップ)                                                                        |                              |                |             |
|                                         |                 | at least 22 credits (22単位以上)<br>1 credit (1単位)<br>at least 2 credits (2単位以上)<br>at least 14 credits (14単位以上)<br>at least 8 credits (8単位以上)<br>at least 6 credits (6単位以上)<br>at least 2 credits (2単位以上)<br>2 credits (2単位)<br>1 credit (1単位)<br>1 credit (1単位)<br>1 credit (1単位)                                                                                                                                                                                                                  |                              |                |             |
|                                         |                 | Liberal Arts Courses (教養科目)<br>Global Liberal Arts Courses (国際理解科目)<br>Contemporary Liberal Arts (現代教養科目)<br>Problem/Project Based Learning Seminar (超学部セミナー)                                                                                                                                                                                                                                                                                                                                    |                              |                |             |
|                                         |                 | at least 4 credits (4単位以上)<br>Must acquire 2 credits from Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of arts and sciences).<br>Must acquire 2 credits from Global Liberal Arts Courses or Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of arts and sciences) or Problem/Project Based Learning Seminar.<br>(現代教養科目(人文・社会系及び学際・融合系)から2単位必修。<br>国際理解科目、現代教養科目(人文・社会系及び学際・融合系)、<br>超学部セミナーから2単位選択必修。) |                              |                |             |
|                                         |                 | Basic Courses for Specialized Fields (分野別基礎科目)<br>Basic Courses in Natural Sciences (自然系基礎科目)<br>Mathematics (数学関係)<br>Physics (物理学関係)<br>Chemistry (化学関係)                                                                                                                                                                                                                                                                                                                                       |                              |                |             |
|                                         |                 | at least 22 credits (22単位以上)<br>A total of 10 credits from Calculus I, II, Linear Algebra I, II and Complex Analysis are compulsory. A total of 8 credits from Fundamentals of Physics I, II, III and Laboratory in Physics are compulsory. A total of 4 credits from Fundamentals of Chemistry I, II are compulsory.<br>(微分積分学 I, II, 線形代数学 I, II, 複素関数論の計10単位は必修。物理学基礎 I, II, III, 物理学実験の計8単位は必修。化学基礎 I, II の計4単位は必修。)                                                                         |                              |                |             |
|                                         |                 | Method of Completion (履修方法)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                |             |
|                                         |                 | Total at least 48 credits (合計 48単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                |             |
|                                         |                 | Credits required for Graduation (卒業必要単位数)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                |             |
|                                         |                 | at least 138.5 credits (138.5単位以上)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                |             |

(2) Advancement Requirements (進級要件)

| Assessment year<br>判定年次               | Course Categories (科目区分)                                                                                            | Minimum Courses/Credits Required<br>(最低必要科目数/単位数) | Requirements (条 件 等)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At the end of the 2nd grade (2 年 終了時) | Commom Basic Courses<br>Liberal Arts Courses<br>Basic Courses for Specialized Fields<br><br>(共通基礎科目, 教養科目, 分野別基礎科目) | 40 credits (40単位)                                 | 1 Commom Basic Courses (一 共通基礎科目)<br>Must acquire a total of at least 12 "Language and Culture" credits from Japanese, English or Second Foreign Language.<br>*Please note that if you choose Second Foreign Languages for Compulsory Elective( Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation.<br><br>「言語文化科目」として日本語、英語及び初修外国語から12単位以上修得すること。<br>※ただし、初修外国語を含む場合は、卒業にはドイツ語、フランス語、ロシア語、中国語、スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。<br><br>2 Basic Courses in Natural Sciences (二 自然系基礎科目)<br>Must acquire at least 18 credits from Basic Courses in Natural Sciences(*from the courses required for graduation above).<br>自然系基礎科目は、上記の卒業に必要な科目のうちから18単位以上修得すること。 |

## ○ Department of Electrical Engineering, Electronics and Information Engineering, Automotive Engineering Program

## 電 気 電 子 情 報 工 学 科 (自動車工学プログラム)

## Basic Specialized Courses

## 専 門 基 礎 科 目

| 授 業 科 目 名   | Course Title                        | Lecturer<br>担 当 教 員                                  |                                             |  |  | Credits<br>単位数 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|-------------|-------------------------------------|------------------------------------------------------|---------------------------------------------|--|--|----------------|----------------------------------------------------|
| 計算機ソフトウェア 1 | Computer Software I                 | HASEGAWA Hiroshi Professor                           | LU Shan Lecturer                            |  |  | 2              | 1 Autumn Compulsory                                |
| 物理学基礎演習 1 a | Fundamental Physics Tutorial Ia     | ESCRIVA MANAS Alberto Designated Assistant Professor |                                             |  |  | 1              | 1 Autumn Elective                                  |
| 物理学基礎演習 1 b | Fundamental Physics Tutorial Ib     | UMEHATA Hideki Designated Assistant Professor        |                                             |  |  | 1              | 1 Autumn Elective                                  |
| 物理学基礎演習 2   | Fundamental Physics Tutorial II     | WOJDYLO John Andrew Professor                        |                                             |  |  | 1              | 1 Spring Elective                                  |
| 数学 1 及び演習   | Mathematics I and Tutorial          | WOJDYLO John Andrew Professor                        | IGURO Shuhei Designated Assistant Professor |  |  | 4              | 2 Autumn Compulsory                                |
| 数学 2 及び演習   | Mathematics II and Tutorial         | FUJITA Takaaki Professor                             | ENDO Tomohiro Associate Professor           |  |  | 4              | 2 Autumn Compulsory                                |
| 解析力学及び演習    | Analytical Dynamics and Tutorial    | SHIGEMORI Masaki Professor                           | ARAI DAI Masaaki Assistant Professor        |  |  | 3              | 2 Autumn Compulsory                                |
| 電気回路工学      | Electrical Circuits Engineering     | KURIMOTO Muneaki Associate Professor                 |                                             |  |  | 2              | 2 Autumn Compulsory                                |
| 材料力学及び演習    | Mechanics of Materials and Tutorial | MATSUMOTO Toshiro Part-Time Faculty                  |                                             |  |  | 3              | 2 Autumn Compulsory                                |
| 熱力学及び演習     | Thermodynamics and Tutorial         | ITO Yasumasa Professor                               |                                             |  |  | 2.5            | 2 Autumn Compulsory                                |
| 機構学         | Kinematics of Machines              | Faculty of Automotive Engineering                    |                                             |  |  | 2              | 2 Autumn Elective                                  |
| 電磁気学        | Electricity and Magnetism           | WOJDYLO John Andrew Professor                        |                                             |  |  | 2              | 2 Spring Compulsory                                |
| 金属材料とセラミックス | Metallic and Ceramic Materials      | KOBASHI Makoto Professor                             | WANG Qian Associate Professor               |  |  | 2              | 2 Spring Compulsory                                |
| 電子回路工学      | Electronic Circuits                 | OHNO Noriyasu Professor                              | KURIMOTO Muneaki Associate Professor        |  |  | 2              | 2 Spring Compulsory                                |
| 固体力学        | Solid Mechanics                     | CUI Yi Associate Professor                           |                                             |  |  | 2              | 2 Spring Elective                                  |
| 流体力学 1 及び演習 | Fluid Mechanics I and Tutorial      | ITO Yasumasa Professor                               |                                             |  |  | 2.5            | 2 Spring Compulsory                                |
| 振動学及び演習     | Vibration Engineering and Tutorial  | CUI Yi Associate Professor                           |                                             |  |  | 3              | 2 Spring Compulsory                                |
| 自動車化学システム 1 | Automobile Chemical Systems I       | NAGAOKA Katsutoshi Professor                         | SATO Katsutoshi Associate Professor         |  |  | 2              | 3 Autumn Elective                                  |
| 計測工学        | Scientific Measurements             | KURIMOTO Muneaki Associate Professor                 |                                             |  |  | 2              | 3 Autumn Compulsory                                |
| 制御工学及び演習    | Control Engineering and Tutorial    | CUI Yi Associate Professor                           |                                             |  |  | 3              | 3 Autumn Compulsory                                |
| 材料加工学       | Material Processing                 | HAYASAKA Takehiro Associate Professor                | NISHIYAMA Kiyohisa Part-Time Faculty        |  |  | 2              | 3 Autumn Elective                                  |

| Specialized Courses | 専 門 科 目                                                                            |                                                               |                     |                     |                                | Credits<br>単位数 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|---------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|---------------------|--------------------------------|----------------|----------------------------------------------------|
| 授 業 科 目 名           | Course Title                                                                       | Lecturer<br>担 当 教 員                                           |                     |                     |                                |                |                                                    |
| 数学演習 1 a            | Mathematics Tutorial Ia                                                            | RICHARD Serge Charles Professor                               |                     |                     |                                | 1              | 1 Autumn Elective                                  |
| 数学演習 1 b            | Mathematics Tutorial Ib                                                            | BACHMANN Henrik                                               | Associate Professor |                     |                                | 1              | 1 Autumn Elective                                  |
| 自動車工学概論             | Introduction to Automotive Engineering                                             | CUI Yi                                                        | Associate Professor |                     |                                | 2              | 1 Autumn Compulsory                                |
| 数学演習 2 a            | Mathematics Tutorial IIa                                                           | BOURNE Chris                                                  | Associate Professor |                     |                                | 1              | 1 Spring Elective                                  |
| 数学演習 2 b            | Mathematics Tutorial IIb                                                           | BACHMANN Henrik                                               | Associate Professor |                     |                                | 1              | 1 Spring Elective                                  |
| 計算機ソフトウェア 2         | Computer Software II                                                               | IWASAKI Masaya                                                | Designated Lecturer |                     |                                | 2              | 2 Spring Compulsory                                |
| 自動車構造               | Vehicle Structures                                                                 | KURIMOTO Muneaki                                              | Associate Professor |                     |                                | 2              | 2 Spring Compulsory                                |
| 自動車のための電子・情報技術      | Introduction to Electrical, Electronic and Information Engineering for Automobiles | Faculty of Electrical, Electronic and Information Engineering |                     |                     |                                | 2              | 2 Spring Compulsory                                |
| 設計製図 1              | Design Practice I                                                                  | NAGASHIMA So                                                  | Associate Professor | TOKOROYAMA Takayuki | Associate Professor            | 1              | 2 Spring Compulsory                                |
| 自動車工学実験 1           | Automobile Engineering Laboratory I                                                | TOKOROYAMA Takayuki                                           | Associate Professor | OSHIMA Daiki        | Associate Professor            | 2              | 3 Autumn Compulsory                                |
| 分析化学                | Analytical Chemistry                                                               | WANG Qian                                                     | Professor           |                     |                                | 2              | 3 Autumn Elective                                  |
| 都市と交通               | Urban Environment and Transportation System                                        | IIZUKA Satoru                                                 | Professor           | KATO Hirokazu       | Professor                      | 2              | 3 Autumn Elective                                  |
|                     |                                                                                    | HOTTA Yoshihiro                                               | Assistant Professor |                     |                                |                |                                                    |
| パワーエレクトロニクス         | Power Electronics                                                                  | KURIMOTO Muneaki                                              | Associate Professor |                     |                                | 2              | 3 Autumn Compulsory                                |
| 数値解析法               | Numerical Analysis                                                                 | ITO Yasumasa                                                  | Professor           |                     |                                | 2              | 3 Autumn Elective                                  |
| 伝熱工学                | Heat Transfer Engineering                                                          | ITO Yasumasa                                                  | Professor           |                     |                                | 2              | 3 Spring Elective                                  |
| 設計製図 2              | Design Practice II                                                                 | MAEDA Eijiro                                                  | Associate Professor |                     |                                | 1              | 3 Autumn Compulsory                                |
| 工場見学A               | Tours in Industrial Plants A                                                       | Faculty of Automotive Engineering                             |                     |                     |                                | 0.5            | 2 Spring Elective                                  |
| 工場見学B               | Tours in Industrial Plants B                                                       | Faculty of Automotive Engineering                             |                     |                     |                                | 0.5            | 3 Autumn Elective                                  |
| 工場実習                | Training in Industrial Plants                                                      | Faculty of Automotive Engineering                             |                     |                     |                                | 1              | 3 Spring Elective                                  |
| 自動車工学実験 2           | Automobile Engineering Laboratory II                                               | TOKOROYAMA Takayuki                                           | Associate Professor | OSHIMA Daiki        | Associate Professor            | 2              | 3 Spring Compulsory                                |
| 自動車化学システム 2         | Automobile Chemical Systems II                                                     | NORINAGA Koyo                                                 | Professor           | MIKSIK Frantisek    | Designated associate professor | 2              | 3 Spring Elective                                  |
| 有機材料                | Organic Materials                                                                  | Faculty of Molecular Design and Engineering                   |                     |                     |                                | 2              | 4 Autumn Elective                                  |
| 環境とリサイクル            | Environment and Recycling                                                          | YOSHIDA Tomoko                                                | Professor           | YAMADA Tomoaki      | Professor                      | 2              | 3 Spring Elective                                  |
| 情報通信技術と自動車交通        | Intelligent Transportation Systems                                                 | NAKAMURA Hideki                                               | Professor           | YAMAMOTO Toshiyuki  | Professor                      | 2              | 3 Spring Elective                                  |
| 自動車の電子機器            | Electronic Devices in Automobiles                                                  | KURIMOTO Muneaki                                              | Associate Professor |                     |                                | 2              | 3 Spring Elective                                  |
| 自動車エンジンと新動力システム     | Vehicle Engines and New Propulsion Systems                                         | Part-Time Faculty                                             |                     |                     |                                | 2              | 3 Autumn Elective                                  |
| 自動車ダイナミクスと制御        | Vehicle Dynamics and Control                                                       | CUI Yi                                                        | Associate Professor |                     |                                | 2              | 3 Spring Elective                                  |
| 自動車安全工学             | Vehicle Safety                                                                     | MIZUNO Koji                                                   | Professor           | SUZUKI Tatsuya      | Professor                      | 2              | 4 Autumn Elective                                  |
| 車両計画と車体設計           | Vehicle Design                                                                     | CUI Yi                                                        | Associate Professor |                     |                                | 2              | 4 Autumn Elective                                  |
| 卒業研究A               | Graduation Research A                                                              | Faculty of Automotive Engineering                             |                     |                     |                                | 5              | 4 Autumn Compulsory                                |
| 卒業研究B               | Graduation Research B                                                              | Faculty of Automotive Engineering                             |                     |                     |                                | 5              | 4 Spring Compulsory                                |

## Related Specialized Courses

## 関 連 専 門 科 目

| 授 業 科 目 名    | Course Title                                                                                | Lecturer<br>担 当 教 員                 |                    |                 | Credits<br>単位数 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|--------------|---------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-----------------|----------------|----------------------------------------------------|
| 科学技術日本語      | Scientific and Technical Japanese                                                           | Part-Time Faculty                   |                    |                 | 2              | 3 Spring Elective                                  |
| ビジネス日本語      | Business Japanese                                                                           | FURUYA Reiko Associate Professor    |                    |                 | 2              | 4 Autumn Elective                                  |
| 工学概論第 3      | Outline of Engineering III                                                                  | LELEITO Emanuel Langat Lecturer     | Gang Zeng Lecturer | LI Jia Lecturer | 2              | 4 Autumn Elective                                  |
| 電気電子情報先端工学概論 | View of Advanced Electrical,<br>Electronic and Information Engineering                      | Associated Faculty                  |                    |                 | 2              | 4 Autumn Elective                                  |
| 環境土木・建築学概論   | Introduction to Civil Engineering and<br>Architecture                                       | Associated Faculty                  |                    |                 | 2              | 4 Autumn Elective                                  |
| 国際先端自動車工学 U1 | International Lectures on Advanced<br>Technology and Trends in Automobile<br>Engineering U1 | SAKAI Yasuhiko Designated Professor |                    |                 | 1              | 3 Spring Elective                                  |
| 国際先端自動車工学 U3 | International Lectures on Advanced<br>Technology and Trends in Automobile<br>Engineering U3 | SAKAI Yasuhiko Designated Professor |                    |                 | 3              | 3 Spring Elective                                  |

## (1) Graduation Requirements (卒業要件)

| Course Classifications<br>授 業 科 目 分 類     |                 | Department of Mechanical and Aerospace Engineering<br>機械・航空宇宙工学科 |                              |                |             |
|-------------------------------------------|-----------------|------------------------------------------------------------------|------------------------------|----------------|-------------|
|                                           |                 | Automotive Engineering<br>自動車工学プログラム                             |                              |                |             |
|                                           |                 | Compulsory<br>必修                                                 | Compulsory<br>Elective<br>選必 | Elective<br>選択 | Total<br>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)                               |                              |                |             |
|                                           |                 | 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)                               |                              |                |             |
|                                           |                 | 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)                               |                              |                |             |
| Liberal Arts and Sciences                 | 全 学 教 育 科 目     | Common Basic Courses (共通基礎科目)                                    |                              |                |             |
|                                           |                 | Introduction to skills for academic success (「大学での学び」基礎論)        |                              |                |             |
|                                           |                 | First Year Seminar (基礎セミナー)                                      |                              |                |             |
|                                           |                 | Language and Culture (言語文化科目)                                    |                              |                |             |
|                                           |                 | Japanese (日本語)                                                   |                              |                |             |
|                                           |                 | Japanese/English/Second Foreign Language (日本語/英語/初修外国語)          |                              |                |             |
|                                           |                 | Health and Sports Sciences (健康・スポーツ科学)                           |                              |                |             |
|                                           |                 | Data Science (データ科学)                                             |                              |                |             |
|                                           |                 | Introduction to Data Science (データ科学基礎)                           |                              |                |             |
|                                           |                 | Data Science Exercise (データ科学基礎演習)                                |                              |                |             |
|                                           | 全 学 教 育 科 目     | Liberal Arts Courses (教養科目)                                      |                              |                |             |
|                                           |                 | Global Liberal Arts Courses (国際理解科目)                             |                              |                |             |
|                                           |                 | Contemporary Liberal Arts (現代教養科目)                               |                              |                |             |
|                                           |                 | Problem/Project Based Learning Seminar (超学部セミナー)                 |                              |                |             |
|                                           |                 | Basic Courses for Specialized Fields (分野別基礎科目)                   |                              |                |             |
|                                           |                 | Basic Courses in Natural Sciences (自然系基礎科目)                      |                              |                |             |
|                                           |                 | Mathematics (数学関係)                                               |                              |                |             |
|                                           |                 | Physics (物理学関係)                                                  |                              |                |             |
|                                           |                 | Chemistry (化学関係)                                                 |                              |                |             |
|                                           |                 | Method of Completion (履修方法)                                      |                              |                |             |
| Credits required for Graduation (卒業必要単位数) |                 | Total at least 48 credits (合計 48単位以上)                            |                              |                |             |
|                                           |                 | at least 137 credits (137単位以上)                                   |                              |                |             |

## (2) Advancement Requirements (進級要件)

| Assessment year<br>判定年次             | Course Categories (科目区分)                                                                                        | Minimum Courses/Credits Required<br>(最低必要科目数/単位数) | Requirements (条件等)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At the end of the 2nd grade (2年終了時) | Common Basic Courses<br>Liberal Arts Courses<br>Basic Courses for Specialized Fields<br>(共通基礎科目, 教養科目, 分野別基礎科目) | 40 credits (40単位)                                 | <p>1 Common Basic Courses (一 共通基礎科目)</p> <p>Must acquire a total of at least 12 "Language and Culture" credits from Japanese, English or Second Foreign Language.<br/>*Please note that if you choose Second Foreign Languages for Compulsory Elective (Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation.</p> <p>「言語文化科目」として日本語、英語及び初修外国語から12単位以上修得すること。<br/>※ただし、初修外国語を含む場合は、卒業にはドイツ語、フランス語、ロシア語、中国語、スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。</p> <p>2 Basic Courses in Natural Sciences (二 自然系基礎科目)</p> <p>Must acquire at least 18 credits from Basic Courses in Natural Sciences (*from the courses required for graduation above).</p> <p>自然系基礎科目は、上記の卒業に必要な科目のうちから18単位以上修得すること。</p> |

○ Department of Mechanical and Aerospace Engineering, Automotive Engineering Program

機 械・航 空 宇 宙 工 学 科 (自動車工学プログラム)

Basic Specialized Courses 専 門 基 礎 科 目

| 授 業 科 目 名   | Course Title                        | Lecturer<br>担 当 教 員                                  |                                             |  |  | Credits<br>単位数 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|-------------|-------------------------------------|------------------------------------------------------|---------------------------------------------|--|--|----------------|----------------------------------------------------|
| 計算機ソフトウェア 1 | Computer Software I                 | HASEGAWA Hiroshi Professor                           | LU Shan Lecturer                            |  |  | 2              | 1 Autumn Compulsory                                |
| 物理学基礎演習 1 a | Fundamental Physics Tutorial Ia     | ESCRIVA MANAS Alberto Designated Assistant Professor |                                             |  |  | 1              | 1 Autumn Elective                                  |
| 物理学基礎演習 1 b | Fundamental Physics Tutorial Ib     | UMEHATA Hideki Designated Assistant Professor        |                                             |  |  | 1              | 1 Autumn Elective                                  |
| 物理学基礎演習 2   | Fundamental Physics Tutorial II     | WOJDYLO John Andrew Professor                        |                                             |  |  | 1              | 1 Spring Elective                                  |
| 数学 1 及び演習   | Mathematics I and Tutorial          | WOJDYLO John Andrew Professor                        | IGURO Shuhei Designated Assistant Professor |  |  | 4              | 2 Autumn Compulsory                                |
| 数学 2 及び演習   | Mathematics II and Tutorial         | FUJITA Takaaki Professor                             | ENDO Tomohiro Associate Professor           |  |  | 4              | 2 Autumn Compulsory                                |
| 解析力学及び演習    | Analytical Dynamics and Tutorial    | SHIGEMORI Masaki Professor                           | ARAIDAI Masaaki Assistant Professor         |  |  | 3              | 2 Autumn Compulsory                                |
| 電気回路工学      | Electrical Circuits Engineering     | KURIMOTO Muneaki Associate Professor                 |                                             |  |  | 2              | 2 Autumn Compulsory                                |
| 材料力学及び演習    | Mechanics of Materials and Tutorial | MATSUMOTO Toshiro Part-Time Faculty                  |                                             |  |  | 3              | 2 Autumn Compulsory                                |
| 熱力学及び演習     | Thermodynamics and Tutorial         | ITO Yasumasa Professor                               |                                             |  |  | 2.5            | 2 Autumn Compulsory                                |
| 機構学         | Kinematics of Machines              | Faculty of Automotive Engineering                    |                                             |  |  | 2              | 2 Autumn Compulsory                                |
| 金属材料とセラミックス | Metallic and Ceramic Materials      | KOBASHI Makoto Professor                             | WANG Qian Associate Professor               |  |  | 2              | 2 Spring Compulsory                                |
| 電子回路工学      | Electronic Circuits                 | OHNO Noriyasu Professor                              | KURIMOTO Muneaki Associate Professor        |  |  | 2              | 2 Spring Elective                                  |
| 固体力学        | Solid Mechanics                     | CUI Yi Associate Professor                           |                                             |  |  | 2              | 2 Spring Elective                                  |
| 流体力学 1 及び演習 | Fluid Mechanics I and Tutorial      | ITO Yasumasa Professor                               |                                             |  |  | 2.5            | 2 Spring Compulsory                                |
| 振動学及び演習     | Vibration Engineering and Tutorial  | CUI Yi Associate Professor                           |                                             |  |  | 3              | 2 Spring Compulsory                                |
| 自動車化学システム 1 | Automobile Chemical Systems I       | NAGAOKA Katsutoshi Professor                         | SATO Katsutoshi Associate Professor         |  |  | 2              | 3 Autumn Elective                                  |
| 計測工学        | Scientific Measurements             | KURIMOTO Muneaki Associate Professor                 |                                             |  |  | 2              | 3 Autumn Elective                                  |
| 制御工学及び演習    | Control Engineering and Tutorial    | CUI Yi Associate Professor                           |                                             |  |  | 3              | 3 Autumn Compulsory                                |
| 材料加工学       | Material Processing                 | HAYASAKA Takehiro Associate Professor                | NISHIYAMA Kiyohisa Part-Time Faculty        |  |  | 2              | 3 Autumn Compulsory                                |

## Specialized Courses

## 専 門 科 目

| 授 業 科 目 名       | Course Title                                | Lecturer<br>担 当 教 員                         |                                                 |                               | Credits<br>単位数 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|-----------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------|-------------------------------|----------------|----------------------------------------------------|
| 数学演習 1 a        | Mathematics Tutorial Ia                     | RICHARD Serge Charles Professor             |                                                 |                               | 1              | 1 Autumn Elective                                  |
| 数学演習 1 b        | Mathematics Tutorial Ib                     | BACHMANN Henrik Associate Professor         |                                                 |                               | 1              | 1 Autumn Elective                                  |
| 自動車工学概論         | Introduction to Automotive Engineering      | CUI Yi Associate Professor                  |                                                 |                               | 2              | 1 Autumn Compulsory                                |
| 数学演習 2 a        | Mathematics Tutorial II a                   | BOURNE Chris Associate Professor            |                                                 |                               | 1              | 1 Spring Elective                                  |
| 数学演習 2 b        | Mathematics Tutorial II b                   | BACHMANN Henrik Associate Professor         |                                                 |                               | 1              | 1 Spring Elective                                  |
| 計算機ソフトウェア 2     | Computer Software II                        | IWASAKI Masaya Designated Lecturer          |                                                 |                               | 2              | 2 Spring Elective                                  |
| 自動車構造           | Vehicle Structures                          | KURIMOTO Muneaki Associate Professor        |                                                 |                               | 2              | 2 Spring Compulsory                                |
| 設計製図 1          | Design Practice I                           | NAGASHIMA So Associate Professor            | TOKOROYAMA Takayuki Associate Professor         |                               | 1              | 2 Spring Compulsory                                |
| 分析化学            | Analytical Chemistry                        | WANG Qian Professor                         |                                                 |                               | 2              | 3 Autumn Elective                                  |
| 都市と交通           | Urban Environment and Transportation System | IIZUKA Satoru Professor                     | KATO Hirokazu Professor                         | IRYO Miho Associate Professor | 2              | 3 Autumn Elective                                  |
|                 |                                             | HOTTA Yoshihiro Assistant Professor         |                                                 |                               |                |                                                    |
| パワーエレクトロニクス     | Power Electronics                           | KURIMOTO Muneaki Associate Professor        |                                                 |                               | 2              | 3 Autumn Elective                                  |
| 数値解析法           | Numerical Analysis                          | ITO Yasumasa Professor                      |                                                 |                               | 2              | 3 Autumn Elective                                  |
| 伝熱工学            | Heat Transfer Engineering                   | ITO Yasumasa Professor                      |                                                 |                               | 2              | 3 Spring Elective                                  |
| 流体力学 2          | Fluid Mechanics II                          | ITO Yasumasa Professor                      |                                                 |                               | 2              | 3 Autumn Elective                                  |
| 自動車工学実験 1       | Automobile Engineering Laboratory I         | TOKOROYAMA Takayuki Associate Professor     | OSHIMA Daiki Associate Professor                |                               | 2              | 3 Autumn Compulsory                                |
| 設計製図 2          | Design Practice II                          | MAEDA Eijiro Associate Professor            |                                                 |                               | 1              | 3 Autumn Compulsory                                |
| 工場見学 A          | Tours in Industrial Plants A                | Faculty of Automotive Engineering           |                                                 |                               | 0.5            | 2 Spring Elective                                  |
| 工場見学 B          | Tours in Industrial Plants B                | Faculty of Automotive Engineering           |                                                 |                               | 0.5            | 3 Autumn Elective                                  |
| 工場実習            | Training in Industrial Plants               | Faculty of Automotive Engineering           |                                                 |                               | 1              | 3 Spring Elective                                  |
| 自動車化学システム 2     | Automobile Chemical Systems II              | NORINAGA Koyo Professor                     | MIKSIK Frantisek Designated associate professor |                               | 2              | 3 Spring Elective                                  |
| 有機材料            | Organic Materials                           | Faculty of Molecular Design and Engineering |                                                 |                               | 2              | 4 Autumn Elective                                  |
| 環境とリサイクル        | Environment and Recycling                   | YOSHIDA Tomoko Professor                    | YAMADA Tomoaki Professor                        | KUWAHARA Makoto Professor     | 2              | 3 Spring Elective                                  |
| 情報通信技術と自動車交通    | Intelligent Transportation Systems          | NAKAMURA Hideki Professor                   | YAMAMOTO Toshiyuki Professor                    | MIWA Tomio Professor          | 2              | 3 Spring Elective                                  |
| 自動車の電子機器        | Electronic Devices in Automobiles           | KURIMOTO Muneaki Associate Professor        |                                                 |                               | 2              | 3 Spring Elective                                  |
| 自動車エンジンと新動力システム | Vehicle Engines and New Propulsion Systems  | Part-Time Faculty                           |                                                 |                               | 2              | 3 Autumn Elective                                  |
| 自動車ダイナミクスと制御    | Vehicle Dynamics and Control                | CUI Yi Associate Professor                  |                                                 |                               | 2              | 3 Spring Elective                                  |
| 自動車工学実験 2       | Automobile Engineering Laboratory II        | TOKOROYAMA Takayuki Associate Professor     | OSHIMA Daiki Associate Professor                |                               | 2              | 3 Spring Compulsory                                |
| 設計製図 3          | Design Practice III                         | HATA Seiichi Professor                      | Part - Time Faculty                             |                               | 1              | 3 Spring Compulsory                                |
| 自動車安全工学         | Vehicle Safety                              | MIZUNO Koji Professor                       | SUZUKI Tatsuya Professor                        |                               | 2              | 4 Autumn Elective                                  |
| 車両計画と車体設計       | Vehicle Design                              | CUI Yi Associate Professor                  |                                                 |                               | 2              | 4 Autumn Elective                                  |
| 卒業研究 A          | Graduation Research A                       | Faculty of Automotive Engineering           |                                                 |                               | 5              | 4 Autumn Compulsory                                |
| 卒業研究 B          | Graduation Research B                       | Faculty of Automotive Engineering           |                                                 |                               | 5              | 4 Spring Compulsory                                |

| Related Specialized Courses | 關 連 專 門 科 目                                                                                 |                                     | Lecturer<br>担 当 教 員 |                 |  | Credits<br>單位數 | Starts<br>(Elective/Compulsory)<br>開講時期及び<br>選択・必修 |
|-----------------------------|---------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------|--|----------------|----------------------------------------------------|
| 科学技術日本語                     | Scientific and Technical Japanese                                                           | Part-Time Faculty                   |                     |                 |  | 2              | 3 Spring Elective                                  |
| ビジネス日本語                     | Business Japanese                                                                           | FURUYA Reiko Associate Professor    |                     |                 |  | 2              | 4 Autumn Elective                                  |
| 工学概論第3                      | Outline of Engineering III                                                                  | LELEITO Emanuel Langat Lecturer     | Gang Zeng Lecturer  | LI Jia Lecturer |  | 2              | 4 Autumn Elective                                  |
| 電気電子情報先端工学概論                | View of Advanced Electrical,<br>Electronic and Information Engineering                      | Associated Faculty                  |                     |                 |  | 2              | 4 Autumn Elective                                  |
| 環境土木・建築学概論                  | Introduction to Civil Engineering and<br>Architecture                                       | Associated Faculty                  |                     |                 |  | 2              | 4 Autumn Elective                                  |
| 国際先端自動車工学 U1                | International Lectures on Advanced<br>Technology and Trends in Automobile<br>Engineering U1 | SAKAI Yasuhiko Designated Professor |                     |                 |  | 1              | 3 Spring Elective                                  |
| 国際先端自動車工学 U3                | International Lectures on Advanced<br>Technology and Trends in Automobile<br>Engineering U3 | SAKAI Yasuhiko Designated Professor |                     |                 |  | 3              | 3 Spring Elective                                  |