

Master's Program Subject and Completion Requirements 2024

Department of Information Systems Engineering

| Code | Classification | A completion requirements item name and subject name | Instructor | Unit | School hour a week | | | | Unit multiplication method | Necessary lower limit units | Upper limit units |
|--------|----------------|---|--|------|-------------------------|-----------------------|-------------------------|-----------------------|----------------------------|-----------------------------|-------------------|
| | | | | | 1st.Grade | | 2nd.Grade | | | | |
| | | | | | Spring and Summer Terms | Fall and Winter Terms | Spring and Summer Terms | Fall and Winter Terms | | | |
| | | Total | | | | | | | 1+2 | 30 | |
| | | 1.Advanced Liberal Arts Educational subjects (select from the attached list "「高度教養教育科目リスト(情報システム工学専攻)」) | | | | | | | | 2 | |
| | | 2.Major Subjects・Advanced Global Literacy Educational subjects | | | | | | | (1)+(2) | 28 | |
| | | (1)Core Subjects | | | | | | | (1,1)+(1,2)+(1,3) | 22 | |
| | | (1.1)Core Subjects (Required) | | | | | | | Σ | 4 | |
| 331421 | M | Research on Information Systems Engineering Ia | All Staff | 2 | 6 | | | | | | |
| 331422 | M | Research on Information Systems Engineering Ib | All Staff | 2 | | 6 | | | | | |
| | | (1.2)Core Subjects (Required Elective) | | | | | | | (1,2,1)or(1,2,2) | 4 | 4 |
| | | (1.2,1)Required Elective Subjects 1 | | | | | | | Σ | 0 | |
| 331413 | M | Exercises on Information Systems Engineering I | All Staff | 2 | 4 | | | | | | |
| 331414 | M | Exercises on Information Systems Engineering II | All Staff | 2 | | 4 | | | | | |
| | | (1.2,2)Required Elective Subjects 2 | | | | | | | | 0 | |
| 331426 | M | Introduction to Exercises on Information Engineering for Interactive Creation A | Taro Maeda Susumu Date Yuki Uranishi Yuichi Ito Masahiro Furukawa | 4 | 4 | 4 | | | | | |
| | | (1,3)Core Subjects(Elective) | | | | | | | | | |
| 331003 | M | Special Lectures on Information Science & Technology I | (Nobuyuki Shibano) (Hideharu Nakajima) (Hiroaki Sugiyama) (Masakazu Ishihata) (Takashi Hattori) (Masaya Hirashima) (Hiroshi Ban) (Yasushi Naruse) | 2 | 2 | | | | | | |
| 331004 | M | Special Lectures on Information Science & Technology II | (Toshiyuki Kano) (Norihiro Taya) | 2 | | 2 | | | | | |
| 331431 | M | Machine Learning Systems Theory | Yoshinobu Kawahara Takuya Konishi | 2 | 2 | | | | | | |
| 331404 | M | Computer-Aided System-on-a-Chip Design | | 2 | | | | | | | |
| 331419 | M | Integrated System Architecture and Synthesis | Takao Onoye Ittetsu Taniguchi Norio Ito Kimihiko Imamura Shohei Yamada | 2 | 2 | | | | | | |
| 331410 | M | Design Methodology of Advanced Information Systems | Takao Onoye Ittetsu Taniguchi Norio Ito Kimihiko Imamura Shohei Yamada | 2 | | 2 | | | | | |
| 331428 | M | Advanced Computing Systems | | 2 | | | | | | | |
| 331429 | M | Advanced Information Systems | Noriyuki Miura Jun Shiomi | 2 | 2 | | | | | | |
| 331408 | M | Concurrent Systems | | 2 | | | | | | | |
| 331420 | M | Dependable Systems | Tatsuhiko Tsuchiya | 2 | 2 | | | | | | |
| 331409 | M | System Interface Design | Yuki Uranishi | 2 | 2 | | | | | | |
| 331411 | G・M | Seminar on Information Systems Engineering I | All Staff | 2 | 2 | | | | | | |
| 331412 | M | Seminar on Information Systems Engineering II | All Staff | 2 | | 2 | | | | | |
| 331423 | M | Research on Information Systems Engineering Ia | All Staff | 2 | | 6 | | | | | |
| 331424 | M | Research on Information Systems Engineering Ib | All Staff | 2 | | | 6 | | | | |
| 331425 | M | Internship on Information Systems Engineering | All Staff (Except Collaborative Division) | 2 | 3 | 3 | | | | | |
| | | (2)Elective subject | | | | | | | (2,1)+(2,2)+(2,3) | | |
| | | (2,1)Inter-disciplinary Subjects | | | | | | | Σ | 0 | |
| 331005 | M | Information Technology and Ethics | Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanishi) | 2 | 2 | | | | | | |
| 331006 | G・M | English Presentation Skills | Bettina Wutzl | 2 | *2 | *2 | | | | | |

Master's Program Subject and Completion Requirements 2024

Department of Information Systems Engineering

| Code | Classification | A completion requirements item name and subject name | Instructor | Unit | School hour a week | | | | Unit multiplication method | Necessary lower limit units | Upper limit units |
|--------|----------------|--|--|------|-------------------------|-----------------------|-------------------------|-----------------------|----------------------------|-----------------------------|-------------------|
| | | | | | 1st.Grade | | 2nd.Grade | | | | |
| | | | | | Spring and Summer Terms | Fall and Winter Terms | Spring and Summer Terms | Fall and Winter Terms | | | |
| 331014 | M | The Foundation of Intellectual Property (Focusing on Computer Science) | (Shuichi Mukai) (Tsuyoshi Masuda) & Other | 2 | | 2 | | | | | |
| 331030 | M | Innovation Management | Minoru Eto Yuko Sasahara | 2 | 2 | | | | | | |
| 331203 | M | Computational Informatics | Takayuki Wada | 2 | | 2 | | | | | |
| 331204 | M | Mathematical Programming | Yutaro Yamaguchi | 2 | 2 | | | | | | |
| 331222 | M | Advanced Introduction to Information Physical Science | All staff of dept. of Information and Physical Sciences | 2 | 2 | | | | | | |
| 331226 | M | Introduction to Smart Contracts | Masayuki Murata Kenji Yamada Kayo Yoshimoto Hiroshi Noguchi Kozou Ohtani | 2 | 2 | | | | | | |
| 331307 | M | Algorithm Design | Toshimitsu Masuzawa Taisuke Izumi | 2 | | 2 | | | | | |
| 331308 | M | Theory of Distributed System Software | | 2 | | | | | | | |
| 331325 | M | Fundamentals of Computer Science | All staff of dept. of Computer Science | 2 | 2 | | | | | | |
| 331338 | M | Computational Photography | Hajime Nagahara Tomoya Nakamura | 2 | | 2 | | | | | |
| 331503 | M | Information Network Architecture | Takashi Watanabe Shunsuke Saruwatari | 2 | 2 | | | | | | |
| 331507 | M | Mobile Computing | Hirozumi Yamaguchi Akira Uchiyama Viktor Erdelyi | 2 | 2 | | | | | | |
| 331508 | M | Mobile Communication Protocols | | 2 | | | | | | | |
| 331511 | M | Economics of Information Network | Hirozumi Yamaguchi Akira Uchiyama (Keita Arai) | 2 | 2 | | | | | | |
| 331525 | M | Advanced Introduction to Information Networking | All staff of dept. of Information Networking | 2 | | 2 | | | | | |
| 331601 | M | Architecture for Multimedia Systems | Susumu Date Kazuhide Kojima Yoshiyuki Kido | 2 | 2 | | | | | | |
| 331635 | M | Big Data Engineering | | 2 | | | | | | | |
| 331636 | M | Big Data Analytics | Makoto Onizuka Chuan Xiao | 2 | 2 | | | | | | |
| 331621 | M | Information Security | | 2 | | | | | | | |
| 331639 | G・M | Studies on International Integrated Sciences | Leibnitz Kenji Ferdinand Peper | 2 | 2 | | | | | | |
| 331637 | M | Robot Vision | Yasuyuki Matsushita | 2 | | 2 | | | | | |
| 331701 | M | Bio-database Engineering | | 2 | | | | | | | |
| 331709 | M | Human Information Processing | Taro Maeda Masahiro Furukawa | 2 | | 2 | | | | | |
| 331720 | M | Bio-network Engineering | Naoki Wakamiya | 2 | 2 | | | | | | |
| 331724 | M | Introduction to Bioinformatic Engineering | All staff of dept. of Bioinformatic Engineering | 2 | 2 | | | | | | |
| 331732 | M | Introduction to Integrated Biological and Information Engineering | Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi Teppei Niide Taisuke Seike | 2 | 2 | | | | | | |
| 331031 | M | Humanware Fundamentals I M | MAHZOON HAMED Satoru Iwasaki Shin'ichi Arakawa Hiroshi Shimizu | 2 | 2 | | | | | | |
| 331032 | M | Humanware Fundamentals II M | Taisuke Izumi Satoru Iwasaki | 2 | | 2 | | | | | |
| 331033 | M | Humanware Innovation Creation M | Toshimitsu Masuzawa Shigeru Kondo Hideyuki Takahashi | 2 | | 2 | | | | | |

Master's Program Subject and Completion Requirements 2024

Department of Information Systems Engineering

| Code | Classification | A completion requirements item name and subject name | Instructor | Unit | School hour a week | | | | Unit multiplication method | Necessary lower limit units | Upper limit units |
|--------|----------------|--|--|------|-------------------------|-----------------------|-------------------------|-----------------------|------------------------------|-----------------------------|-------------------|
| | | | | | 1st.Grade | | 2nd.Grade | | | | |
| | | | | | Spring and Summer Terms | Fall and Winter Terms | Spring and Summer Terms | Fall and Winter Terms | | | |
| 331034 | M | Humanware Seminar M | Nobuyuki Okahashi Ittetsu Taniguchi Yoshiki Higo MAHZOON HAMED Hiroshi Shimizu | 2 | 1 | 1 | | | | | |
| 331035 | M | Humanware Innovation Introduction M | Tatsuhiko Tsuchiya Naoki Wakamiya | 2 | 1 | 1 | | | | | |
| 331036 | M | Humanware Communication M | Suguru Shimomura Shin-ichi Arakawa | 2 | | | 1 | 1 | | | |
| 331037 | M | Humanware Laboratory Rotation M | Yoshiki Higo | 2 | 1 | 1 | | | | | |
| 331038 | M | Humanware Internship (Short Term) M | Takuya Maekawa Naoki Wakamiya Satoru Iwasaki | 2 | 3 | 3 | | | | | |
| 331039 | M | Humanware Internship (Long Term) M | Takuya Maekawa Naoki Wakamiya Satoru Iwasaki | 4 | 6 | 6 | | | | | |
| | | (2,2)Others | | | | | | | | 0 | |
| | | (2,3)Academic Internship Abroad | | | | | | | MAX{(2,3,1),(2,3,2),(2,3,3)} | 0 | |
| | | (2,3,1) | | | | | | | | 0 | |
| 331040 | G・M | Humanware Overseas Internship (Short Term) M | Yasuyuki Matsushita Satoru Iwasaki | 2 | 3 | 3 | | | | | |
| | | (2,3,2) | | | | | | | | 0 | |
| 331025 | G・M | Academic Internship Abroad M(S) | All Staff | 4 | 6 | 6 | (6) | | | | |
| 331041 | G・M | Humanware Overseas Internship (Long Term) M | Yasuyuki Matsushita Satoru Iwasaki | 4 | 6 | 6 | | | | | |
| | | (2,3,3) | | | | | | | | 0 | |
| 331027 | G・M | Academic Internship Abroad M(L) | All Staff | 8 | 12 | 12 | (12) | | | | |

Note)

- Σ= Integrate the total number of credits for subjects with a slant line directly below.
- MAX= Integrate only one subject with the maximum number of credits.
- The class with * is held twice a year. However, registration is limited according to the department.
- The class is not offered this year when the instructor's name field is blank.
- Requirements for Completion: Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis. In the 30 credits, students must include 22 credits of Major subjects, 1 credit of Advanced Global Literacy Educational subjects, and 2 credits of Advanced Liberal Arts Educational subjects.
- M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".
- "M" in the classification column represents Major subjects, "G" represents Advanced Global Literacy Educational subjects, and "G・M" represents subjects with both Advanced Global Literacy Educational and Major subjects' characteristics.
- If you have acquired subjects with both Advanced Global Literacy Educational and Major subjects' characteristics, the credits will be included preferentially for Advanced Global Literacy Educational subjects. If 1 credit of Advanced Global Literacy Educational subjects is already fulfilled, it will be included for Major subjects.
- With regard to Advanced Liberal Arts Educational subjects and Advanced Global Literacy Educational subjects offered by other graduates schools (or other institutions) in Osaka university, the subjects approved by Department of Information Systems Engineering can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts Educational subjects and 1 credit for Advanced Global Literacy Educational subjects.
- For details, please refer the attached "「高度教養教育科目リスト(情報システム工学専攻)」 「高度国際性涵養教育科目リスト(情報システム工学専攻)」".
- Only Humanware Innovation Program students can register subjects from 331036 to 331041.