

Master's Program Subject and Completion Requirements 2017

Department of Information and Physical Sciences

| Code | A completion requirements item name and subject name | Instructor | Unit | School hour a week | | | | Unit multiplication method | Necessary lower limit units | Necessary lower 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)Core Subjects | | | | | | | (1,1)+(1,2) | 22 | | | | |
| | (1,1)Core Subjects (Required) | | | | | | | Σ | 7 | | | | |
| 331212 | Exercises on Information and Physical Sciences I | All Staff | 2 | 2 | 2 | | | | | | | | |
| 331213 | Exercises on Information and Physical Sciences II | All Staff | 2 | 2 | 2 | | | | | | | | |
| 331214 | Research on Information and Physical Sciences I | All Staff | 3 | 4.5 | 4.5 | | | | | | | | |
| | (1,2)Core Subjects (Elective) | | | | | | | | | | Σ | 0 | |
| 331203 | Computational Informatics | | 2 | | | | | | | | | | |
| 331204 | Mathematical Programming | Shunji Umetani | 2 | 2 | | | | | | | | | |
| 331225 | Topics on Nonlinear Phenomena | Hideyuki Suzuki | 2 | | 2 | | | | | | | | |
| 331206 | Nonlinear Analysis | Yoshitaka Yamamoto | 2 | 2 | | | | | | | | | |
| 331207 | Applied Information Analysis | Yasumasa Fujisaki | 2 | 2 | | | | | | | | | |
| 331208 | Advanced Statistical Analysis | Hiroshi Morita | 2 | | 2 | | | | | | | | |
| 331210 | Seminar on Information and Physical Sciences I | All Staff | 2 | 1 | 1 | | | | | | | | |
| 331211 | Seminar on Information and Physical Sciences II | All Staff | 2 | 1 | 1 | | | | | | | | |
| 331215 | Research on Information and Physical Sciences II | All Staff | 3 | | | 4.5 | 4.5 | | | | | | |
| 331216 | Special Lectures on Information and Physical Sciences I | Takaharu Yaguchi | 2 | 2 | | | | | | | | | |
| 331217 | Special Lectures on Information and Physical Sciences II | (Undecided) | 2 | | 2 | | | | | | | | |
| 331218 | Information Physics I | Jun Tanida | 2 | 2 | | | | | | | | | |
| 331219 | Information Physics II | Yusuke Ogura | 2 | | 2 | | | | | | | | |
| 331220 | Intelligence and Learning | Masayuki Numao | 2 | 2 | | | | | | | | | |
| 331224 | Knowledge Informatics | Kenichi Fukui | 2 | | 2 | | | | | | | | |
| 331222 | Advanced Introduction to Information Physical Science | All Staff | 2 | 2 | | | | | | | | | |
| 331223 | Internship on Information and Physical Sciences | Yasumasa Fujisaki Jun Tanida Hiroshi Morita Masayuki Numao Hideyuki Suzuki | 2 | 3 | 3 | | | | | | | | |
| | (2)Elective subject | | | | | | | (2,1)+(2,2)+(2,3) | 0 | | | | |
| | (2,1)Inter-disciplinary Subjects | | | | | | | Σ | 0 | | | | |
| 331005 | Information Technology and Ethics | Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanishi) | 2 | 2 | | | | | | | | | |
| 331007 | English Presentation Skills | Eum Suyong | 2 | *2 | *2 | | | | | | | | |
| 331014 | The Foundation of Intellectual Property (Focusing on Computer Science) | Hidefumi Aoe & Other | 2 | | 2 | | | | | | | | |
| 331130 | Computational Mathematics I | Daisuke Furihata | 2 | 2 | | | | | | | | | |
| 331131 | Computational Mathematics II | Tsuyoshi Chawanya | 2 | | 2 | | | | | | | | |
| 331132 | Applied Mathematics | Satoshi Murai | 2 | | 2 | | | | | | | | |
| 331135 | Topics in Frontiers of Mathematics | Satoshi Murai | 2 | | 2 | | | | | | | | |
| 331325 | Fundamentals of Computer Science | All staff of dept. of Computer Science | 2 | 2 | | | | | | | | | |
| 331406 | Image Signal Processing | Koji Nakamae Katsuyoshi Miura | 2 | | 2 | | | | | | | | |
| 331525 | Advanced Introduction to Information Networking | All staff of dept. of Information | 2 | | 2 | | | | | | | | |
| 331621 | Informartion Security | Toru Fujiwara Yasunori Ishihara | 2 | 2 | | | | | | | | | |
| 331639 | Studies on International Integrated Sciences | Leibnitz Kenji Ferdinand Peper Siriteanu Constantin | 2 | 2 | | | | | | | | | |
| 331426 | Introduction to Exercises on Information Engineering for Interactive Creation A | Taro Maeda Haruo Takemura Toru Fujiwara Hideyuki Ando Susumu Date Yuichi Ito | 4 | 4 | 4 | | | | | | | | |
| 331702 | Molecular Bio-information Analysis | | 2 | | | | | | | | | | |
| 331720 | Bio-network engineering | | 2 | | | | | | | | | | |
| 331724 | Introduction to Bioinformatic Engineering | All staff of dept. of Bioinformatic Engineering | 2 | 2 | | | | | | | | | |
| 331732 | Introduction to Integrated Biological and Information Engineering | Hiroshi Shimizu Yoshihiro Toya | 2 | 2 | | | | | | | | | |
| 331332 | Fundamentals of Software Development on Cloud Environment | Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other | 2 | 2 | | | | | | | | | |

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|--------|---|---|------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| | | | | 1st.Grade | | 2nd.Grade | | | | |
| | | | | Spring and Summer Terms | Fall and Winter Terms | Spring and Summer Terms | Fall and Winter Terms | | | |
| 331333 | Exercise for Software Development on Cloud Environment | Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other | 2 | 2 | 2 | | | | | |
| 331336 | Advanced PBL for Software Development on Cloud Environment | Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other | 2 | | 2 | | | | | |
| | (2,2)Oters | | | | | | | | 0 | |
| | (2,3)Academic Internship Abroad | | | | | | | MAX{(2,3,1),(2,3,2 | 0 | |
| | (2,3,1)S | | | | | | | | 0 | |
| 331025 | Academic Internship Abroad M(S) | All Staff | 4 | 6 | 6 | (※6) | | | | |
| | (2,3,3)L | | | | | | | | 0 | |
| 331027 | Academic Internship Abroad M(L) | All Staff | 8 | 12 | 12 | (※12) | | | | |

- Note1) 1. Σ= Integrate the total number of credits for subjects with a slant line directly below.
2. MAX= Integrate only one subject with the maximum number of credits.
3. The class with * is held twice a year. However, registration is limited according to the department.
4. The class is not offered this year when the instructor's name field is blank.
5. Requirements for Completion; Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis.
6. M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".

- Note2) 1. The requirements to complete "Cloud Spiral" course shall be prescribed separately.
2. 331332, 331333 and 331336 are offered only for "Cloud Spiral" course students. (held at Nakanoshima center)