



OSAKA UNIVERSITY
School of Science
Graduate School of Science

Course Schedule for Graduate School of Science

【Special Integrated Science Course (SISC)】
【International Physics Course (IPC)】
(*Spring to Winter 2018*)



OSAKA UNIVERSITY

Contents

| | |
|-----------------------------------|---------|
| Contents | p 1 |
| How to Read Course Schedule | p 2 • 3 |

Spring and Summer terms

| | |
|--|-----|
| 1. Lecture / Intensive Course | p 4 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |
| 2. Others | p 5 |
| 【Special Integrated Science Course (SISC)】 | |
| 3. Seminar for Master Course | p 6 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |
| 4. Seminar for Doctor Course | p 7 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |

Fall and Winter terms

| | |
|--|------|
| 5. Lecture / Intensive Course | p 8 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |
| 6. Others | p 9 |
| 【Special Integrated Science Course (SISC)】 | |
| 7. Seminar for Master Course | p 10 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |
| 8. Seminar for Doctor Course | p 11 |
| 【Special Integrated Science Course (SISC)】 | |
| 【International Physics Course (IPC)】 | |

How to Read Course Schedule

1. The six characters in red on each page indicate schedule codes for each subject.

2. Please register online (KOAN) for subjects during the registration period as follows.

| Registration period | Subjects | Cancellation period of registration | Subjects |
|---------------------------------------|--|-------------------------------------|---|
| April 1(Sun) ~20(Fri) | <ul style="list-style-type: none"> • Spring term • Summer term • Spring and Summer terms • Full-year courses offered from the spring term through to the winter term | April 23(Mon) ~27(Fri) | <ul style="list-style-type: none"> • Spring term • Spring and Summer terms • Full-year courses offered from the spring term through to the winter term |
| June 11(Mon) ~15(Fri) | <ul style="list-style-type: none"> • Summer term | June 25(Mon) ~29(Fri) | <ul style="list-style-type: none"> • Summer term |
| September 18(Tue) ~October 15(Mon) | <ul style="list-style-type: none"> • Fall term • Winter term • Fall and Winter terms • Full-year courses offered from the fall term through to the summer term | October 16(Tue) ~22(Mon) | <ul style="list-style-type: none"> • Fall term • Fall and Winter terms • Full-year courses offered from the fall term through to the summer term |
| November 27(Tue) ~December 14(Fri) | <ul style="list-style-type: none"> • Winter term | December 17(Mon) ~21(Fri) | <ul style="list-style-type: none"> • Winter term |

“◎” in the schedule shows a schedule code for Students Enrolled Spring.

“★” in the schedule shows a schedule code for Students Enrolled Fall.

3.✕” in the schedule shows a common subject to Master course and Doctor course.

4. Schedule changes, cancellations, and schedules of intensive lectures will be announced on the notice board.

《 p 4& p 8 Intensive Course》

Although all Intensive Courses are common subjects to Master and Doctor courses, they are classified with the Doctor Course in online system. Please choose Doctoral Program from the course affiliation drop-down list and enter the course code when you register online.

《p 6& p 10 Seminar for Master Course》

Please register online for seminars for Master course at Spring term and Fall term as the seminars are semiannual.

《p 7& p 11 Seminar for Doctor Course》

■ For students Enrolled Spring----- p 7

Please register online for seminars for Doctor course at Spring term as the seminars full-year courses offered from the spring term through to the winter term.

■ For students Enrolled Fall----- p 11

Please register online for seminars for Doctor course at Fall term as the seminars full-year courses offered from the fall term through to the summer term.

《Notes》

(Spring and Summer terms)

Spring term : April 9~June 10

Summer term : June 11~September 30

(Fall and Winter terms)

Fall term : October 1~December 7

Winter term : November 27~March 31

Spring and Summer terms

1.Lecture / Intensive Course

| Day | Period | Special Integrated Science Course | International Physics Course |
|------------------|--------|--|---|
| Mon | 1 | | |
| | 2 | Topics in Inorganic Chemistry 24S048 Y.Funahashi,N.Ishikawa,T.Yoshimura D307 | High Energy Physics 24P039 M. Aoki E201 |
| | 3 | | |
| | 4 | | |
| | 5 | | |
| Tue | 1 | ①Natural Product Chemistry 24S049 K.Fukase D301 ②Organic Biochemistry 24S043 Y.Kajihara D301 | |
| | 2 | | |
| | 3 | | Introduction to Theoretical Nuclear Physics 24P032 A. Hosaka E304 |
| | 4 | | |
| | 5 | | |
| Wed | 1 | Introductory Biology 24S057 Y. Tak B307 | |
| | 2 | | Quantum Many-body systems 24P028 M. Koshino E304 |
| | 3 | | |
| | 4 | | |
| | 5 | | |
| Thu | 1 | | |
| | 2 | | |
| | 3 | | Quantum Field Theory I 24P033 K. Hashimoto E304 |
| | 4 | | |
| | 5 | | |
| Fri | 1 | | |
| | 2 | | Synchrotron Radiation Spectroscopy 24P035 S. Kimura E203 |
| | 3 | | |
| | 4 | | Nuclear Physics in the Universe 24P031 T.Shima B307 |
| | 5 | | |
| Intensive Course | | Current Topics I (※) 「Carbohydrates:biofunction and chemical synthesis」 24S014 K.Fukase Notified on the board | |
| | | | |

■Note 1. Class Time : The first period 8:50~10:20 The fourth period 14:40~16:10
 The second period 10:30~12:00 The fifth period 16:20~17:50
 The third period 13:00~14:30
 ①=Spring term ②=Summer term

Spring and Summer terms

2. Others

| Special Integrated Science Course | | | |
|-----------------------------------|--|--|---------------|
| Program | Course | Teaching staff | Schedule Code |
| MC | Advanced Chemical Experiment (Spring to Winter) | Funahashi, Shimoyama | 24S807 (◎) |
| MC | Interactive Seminar (Spring to Winter) | Funahashi | 24S805 (◎) |
| MC | Basic Biology I (Spring and Summer) | Professors in Department of Biological Sciences | 24S001 |
| DC | Interactive Seminar for Advanced Research (Spring and Summer) | Funahashi | 24S407 |

【Note】

◎:For Students Enrolled Spring (Please register online for subjects at the registration period of Spring term.)

"Basic" courses are offered at your lab. Please ask your supervisor for more details.

| Special Integrated Science Course | | | | | |
|-----------------------------------|----------------------|--|------|--------------------|---------------|
| Program | Course | Date | Room | Teaching staff | Schedule Code |
| MC | Biological Science I | 4/18(W)14:40~17:50 4/25(W)14:40~17:50 | D407 | Kimura (Kotaro) | 24S032 |
| | | | | | |
| Biological Sciences | | | | | |
| Program | Course | Teaching staff | | Schedule Code | |
| MC | Science Core I | Takagi | | 240971 | |
| MC | Science Core III | Takagi | | 240972 | |

3. Seminar for Master Course

Chemistry

| Special Integrated Science Course | | |
|-----------------------------------|-------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar | Sasai | 24S331 |
| Semestral Seminar | Okumura | 24S334 |
| Semestral Seminar | Nakatani | 24S336 |
| Semestral Seminar | Fujiwara | 24S354 |
| Semestral Seminar | Matsumoto | 24S356 |
| Semestral Seminar | Kobayashi(Hikaru) | 24S381 |
| Semestral Seminar | Kubo | 24S382 |
| Semestral Seminar | Konno | 24S394 |
| Semestral Seminar | Fukase | 24S417 |
| Semestral Seminar | Kajihara | 24S425 |
| Semestral Seminar | Tsukahara | 24S429 |

| International Physics Course | | |
|------------------------------|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar II | Kuno | 24P306 |
| Semestral Seminar II | Aoi | 24P355 |
| Semestral Seminar II | Nomachi | 24P328 |
| Semestral Seminar IV | Yoshida | 24P018 |
| Semestral Seminar IV | Kuno | 24P308 |
| Semestral Seminar IV | Ideguchi | 24P322 |
| Semestral Seminar IV | Kikuchi | 24P353 |

Biological Sciences

| Special Integrated Science Course | | |
|-----------------------------------|-------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar | Furuya | 24S358 |
| Semestral Seminar | Hikita | 24S360 |
| Semestral Seminar | Okada(Masato) | 24S379 |
| Semestral Seminar | Nakagawa(Takurou) | 24S400 |
| Semestral Seminar | Kakimoto | 24S402 |
| Semestral Seminar | Shinohara(Akira) | 24S411 |
| Semestral Seminar | Fujimoto | 24S421 |
| Semestral Seminar | Furukawa | 24S430 |
| Semestral Seminar | Fujiwara | 24S431 |
| Semestral Seminar | Takagi(Jun-ich) | 24S432 |
| Semestral Seminar | Takagi(Shingo) | 24S433 |
| Semestral Seminar | Shiga | 24S434 |
| Semestral Seminar | Kon | 24S435 |
| Semestral Seminar | Matsuno | 24S436 |

Spring and Summer terms

4. Seminar for Doctor Course

■【Students Enrolled *Spring*】

Chemistry

| Special Integrated Science Course | | |
|--|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Spring to Winter) | Tsukahara | 24S326 |
| Seminar for Advanced Researches (Spring to Winter) | Matsumoto | 24S801 |
| Seminar for Advanced Researches (Spring to Winter) | Houjou | 24S802 |
| Seminar for Advanced Researches (Spring to Winter) | Ogawa(Takuji) | 24S813 |
| Seminar for Advanced Researches (Spring to Winter) | Kajihara | 24S814 |
| Seminar for Advanced Researches (Spring to Winter) | Nakatani | 24S816 |

| International Physics Course | | |
|--|-------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Spring to Winter) | Fukuda(Mitsuhiro) | 24P335 |
| Seminar for Advanced Researches (Spring to Winter) | Hosaka | 24P342 |
| Seminar for Advanced Researches (Spring to Winter) | Yoshida | 24P362 |

Biological Sciences

| Special Integrated Science Course | | |
|--|------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Spring to Winter) | Nakai | 24S405 |
| Seminar for Advanced Researches (Spring to Winter) | Kakimoto | 24S804 |
| Seminar for Advanced Researches (Spring to Winter) | Okada | 24S809 |
| Seminar for Advanced Researches (Spring to Winter) | Shinohara(Akira) | 24S811 |
| Seminar for Advanced Researches (Spring to Winter) | Matsuno | 24S812 |
| Seminar for Advanced Researches (Spring to Winter) | Nakagawa(Takuro) | 24S818 |

Macromolecular Science

| Special Integrated Science Course | | |
|--|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Spring to Winter) | Sato | 24S803 |

Fall and Winter terms

5.Lecture / Intensive Course

| Day | Period | Special Integrated Science Course | International Physics Course |
|------------------|--------|---|---|
| Mon | 1 | | |
| | 2 | | |
| | 3 | | |
| | 4 | | |
| | 5 | | |
| Tue | 1 | | |
| | 2 | ④Chemistry on Catalysis H.Sasai 24S042 D301 | |
| | 3 | | Condensed Matter Theory K. M. Slevin 24P037 E304 |
| | 4 | ③Structural Organic Chemistry T.Kubo 24S045 D301 | |
| | 5 | | |
| Wed | 1 | | |
| | 2 | | |
| | 3 | | Electrodynamics L. Baiotti ◆24P001 D301 |
| | 4 | | |
| | 5 | | |
| Thu | 1 | | |
| | 2 | | |
| | 3 | | |
| | 4 | | Quantum Mechanics L. Baiotti ◆24P004 B307 |
| | 5 | | |
| Fri | 1 | | |
| | 2 | ③Analytical Chemistry for Interface S.Tsukahara 24S064 B301 | |
| | 3 | | Quantum Field Theory II S. Yamaguchi 24P026 B307 |
| | 4 | | |
| | 5 | | |
| Intensive Course | | Current Topics II (※) 「i-biomacromolecular science」 M.Okuda 24S015 Notified on the board | Topical Seminar I (※) 「Terahertz spectroscopy of elementary excitations in solids」 R.Shimano 24P019 Notified on the board |
| | | | Topical Seminar II (※) 「A journey from the hadronic world to quark-gluon plasma」 Su Hong Lee 24P020 Notified on the board |
| | | | |

■Note 1. Class Time : The first period 8:50~10:20 The fourth period 14:40~16:10
The second period 10:30~12:00 The fifth period 16:20~17:50
The third period 13:00~14:30

③=Fall term ④=Winter term

◆These credits cannot be used to fulfil the requirements of graduation

Fall and Winter terms

6. Others

| Special Integrated Science Course | | | |
|-----------------------------------|--|--|---------------|
| Program | Course | Teaching staff | Schedule Code |
| MC | Advanced Chemical Experiment (Fall to Summer) | Funahashi, Shimoyama | 24S010 (★) |
| MC | Interactive Seminar (Fall to Summer) | Funahashi | 24S024 (★) |
| MC | Basic Biology II (Fall and Winter) | Professors in Department of Biological Sciences | 24S002 |
| DC | Interactive Seminar for Advanced Research (Fall and Winter) | Funahashi | 24S408 |

【Note】

★:For Students Enrolled Fall (Please register online for subjects at the registration period of Fall term.)

"Basic" courses are offered at your lab. Please ask your supervisor for more details.

| Special Integrated Science Course | | | | | |
|-----------------------------------|------------------------|--|------------------|------------------------------|---------------|
| Program | Course | Date | Room | Teaching staff | Schedule Code |
| MC | Biological Science II | 10/17(W)16:20~17:50 10/24(W)16:20~17:50 10/31(W)16:20~17:50 11/ 7(W)16:20~17:50 | B307 | Shiga | 24S033 |
| MC | Biological Science III | 10/ 5(F)16:20~17:50 10/12(F)16:20~17:50 10/19(F)16:20~17:50 10/26(F)16:20~17:50 | IPR Lecture Hall | Kurisu | 24S034 |
| MC | Biological Science IV | 11/14(W)14:40~17:50 11/21(W)14:40~17:50 | B307 | Matsuno Yamakawa Inaki | 24S035 |

| Biological Sciences | | | |
|---------------------|-----------------|----------------|---------------|
| Program | Course | Teaching staff | Schedule Code |
| MC | Science Core II | Takagi | 240954 |
| MC | Science Core IV | Takagi | 240973 |

7. Seminar for Master Course

Chemistry

| Special Integrated Science Course | | |
|-----------------------------------|-------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar | Konno | 24S332 |
| Semestral Seminar | Kajihara | 24S333 |
| Semestral Seminar | Okumura | 24S335 |
| Semestral Seminar | Nakatani | 24S337 |
| Semestral Seminar | Fujiwara | 24S355 |
| Semestral Seminar | Matsumoto | 24S357 |
| Semestral Seminar | Sasai | 24S361 |
| Semestral Seminar | Kobayashi(Hikaru) | 24S377 |
| Semestral Seminar | Kubo | 24S378 |
| Semestral Seminar | Fukase | 24S418 |
| Semestral Seminar | Tsukahara | 24S423 |

Biological Sciences

| Special Integrated Science Course | | |
|-----------------------------------|-------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar | Furukawa | 24S383 |
| Semestral Seminar | Fujiwara | 24S384 |
| Semestral Seminar | Furuya | 24S359 |
| Semestral Seminar | Okada(Masato) | 24S380 |
| Semestral Seminar | Nakagawa(Takurou) | 24S401 |
| Semestral Seminar | Kakimoto | 24S403 |
| Semestral Seminar | Shinohara(Akira) | 24S412 |
| Semestral Seminar | Fujimoto | 24S420 |
| Semestral Seminar | Takagi(Jun-ich) | 24S424 |
| Semestral Seminar | Takagi(Shingo) | 24S426 |
| Semestral Seminar | Shiga | 24S427 |
| Semestral Seminar | Kon | 24S428 |
| Semestral Seminar | Matsuno | 24S437 |
| Semestral Seminar | Hikita | 24S438 |

| International Physics Course | | |
|------------------------------|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Semestral Seminar I | Kuno | 24P305 |
| Semestral Seminar I | Aoi | 24P354 |
| Semestral Seminar III | Yoshida | 24P017 |
| Semestral Seminar III | Kuno | 24P307 |
| Semestral Seminar III | Ideguchi | 24P321 |
| Semestral Seminar III | Nomachi | 24P329 |
| Semestral Seminar III | Kikuchi | 24P352 |

8. Seminar for Doctor Course

■【Students Enrolled *Fall*】

Chemistry

| Special Integrated Science Course | | |
|--|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Fall to Summer) | Sasai | 24S030 |
| Seminar for Advanced Researches (Fall to Summer) | Takao | 24S325 |
| Seminar for Advanced Researches (Fall to Summer) | Tsukahara | 24S330 |
| Seminar for Advanced Researches (Fall to Summer) | Konno | 24S370 |
| Seminar for Advanced Researches (Fall to Summer) | Murata | 24S413 |
| Seminar for Advanced Researches (Fall to Summer) | Fukase | 24S414 |
| Seminar for Advanced Researches (Fall to Summer) | Ishikawa | 24S422 |
| Seminar for Advanced Researches (Fall to Summer) | Taniguchi | 24S808 |
| Seminar for Advanced Researches (Fall to Summer) | Funahashi | 24S810 |

Biological Sciences

| Special Integrated Science Course | | |
|--|------------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Fall to Summer) | Shinohara(Akira) | 24S329 |
| Seminar for Advanced Researches (Fall to Summer) | Kakimoto | 24S389 |
| Seminar for Advanced Researches (Fall to Summer) | Kurisu | 24S415 |
| Seminar for Advanced Researches (Fall to Summer) | Hiraoka | 24S419 |

Macromolecular Science

| Special Integrated Science Course | | |
|--|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Fall to Summer) | Hashidzume | 24S385 |
| Seminar for Advanced Researches (Fall to Summer) | Yamaguchi | 24S387 |
| Seminar for Advanced Researches (Fall to Summer) | Kurisu | 24S388 |
| Seminar for Advanced Researches (Fall to Summer) | Sato | 24S416 |
| Seminar for Advanced Researches (Fall to Summer) | Inoue | 24S817 |

Physics

| International Physics Course | | |
|--|----------------|---------------|
| Course | Teaching staff | Schedule Code |
| Seminar for Advanced Researches (Fall to Summer) | Kuno | 24P023 |
| Seminar for Advanced Researches (Fall to Summer) | Hashimoto | 24P317 |
| Seminar for Advanced Researches (Fall to Summer) | Tajima | 24P318 |
| Seminar for Advanced Researches (Fall to Summer) | Yoshida | 24P340 |
| Seminar for Advanced Researches (Fall to Summer) | Kimura | 24P341 |
| Seminar for Advanced Researches (Fall to Summer) | Ideguchi | 24P345 |
| Seminar for Advanced Researches (Fall to Summer) | Noumi | 24P346 |
| Seminar for Advanced Researches (Fall to Summer) | Hosaka | 24P348 |
| Seminar for Advanced Researches (Fall to Summer) | Toyoda | 24P363 |
| Seminar for Advanced Researches (Fall to Summer) | Nomachi | 24P364 |
| Seminar for Advanced Researches (Fall to Summer) | Fujioka | 24P365 |