



THE UNIVERSITY OF OSAKA  
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 2025)**



The University of  
**Osaka**

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## How to Read Course Schedule

1. The six characters in red on each page indicate 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 (Tue) 9:30 – April 19 (Sat) 16:30	<ul style="list-style-type: none"> <li>• Spring term</li> <li>• Summer term</li> <li>• Spring and Summer terms</li> <li>• Full-year courses offered from the Spring term through to the Winter term</li> </ul>	April 23 (Wed) 9:30 – April 30 (Wed) 16:30	<ul style="list-style-type: none"> <li>• Spring term</li> <li>• Summer term</li> <li>• Spring and Summer terms</li> <li>• Full-year courses offered from the Spring term through to the Winter term</li> </ul>
June 4 (Wed) 9:30 – June 25 (Wed) 16:30	<ul style="list-style-type: none"> <li>• Summer term</li> </ul>	June 26 (Thu) 9:30 – July 2 (Wed) 16:30	<ul style="list-style-type: none"> <li>• Summer term</li> </ul>
September 13 (Sat) 9:30 – October 14 (Tue) 16:30	<ul style="list-style-type: none"> <li>• Fall term</li> <li>• Winter term</li> <li>• Fall and Winter terms</li> <li>• Full-year courses offered from the Fall term through to the Summer term</li> </ul>	October 15 (Wed) 9:30 – October 21 (Tue) 16:30	<ul style="list-style-type: none"> <li>• Fall term</li> <li>• Winter term</li> <li>• Fall and Winter terms</li> <li>• Full-year courses offered from the Fall term through to the Summer term</li> </ul>
November 27 (Thu) 9:30 – December 17 (Wed) 16:30	<ul style="list-style-type: none"> <li>• Winter term</li> </ul>	December 18 (Thu) 9:30 – December 24 (Wed) 16:30	<ul style="list-style-type: none"> <li>• Winter term</li> </ul>

### Meaning of the symbols used in the Course Schedule table

- “☉” means that the code is that for students who enroll in the course in the Spring term.  
 “★” means that the code is that for students who enroll in the course in the Fall term.  
 “✖” means that the course is a common course for Master’s and Ph. D. programs.

3. Schedule changes, cancellations, as well as the schedules of intensive lectures will be announced on the notice board.

#### **«p4 & p8 Intensive Courses»**

All Intensive Courses are common to the Master's and Ph. D. programs; however, they are classified to be Ph. D. courses in the online system. When registering online, choose Doctoral Program from the course affiliation drop-down list and enter the course code.

#### **«p6 & p10 Seminars for the Master's Program»**

Please register online for seminars for the Master's program in both the Spring term and the Fall term as the seminars are semiannual.

#### **«P7 & p11 Seminars for the Ph. D. Program»**

##### **■ For students enrolling in the Spring term----- p 7**

Please register online for seminars for the Ph. D. program in the Spring term as the seminars are full-year courses offered from the Spring term through to the Winter term.

##### **■ For students enrolling in the Fall term----- p 11**

Please register online for seminars for the Ph. D. program in the Fall term as the seminars are full-year courses offered from the Fall term through to the Summer term.

#### **«Notes»**

(Spring and Summer terms)

Spring term: 1 April, 2025 - 11 June, 2025

Summer term: 12 June, 2025 - 30 September 2025

(Fall and Winter terms)

Fall term: 1 October, 2025 - 3 December, 2025

Winter term: 4 December, 2025 - 31 March, 2026

## Spring and Summer terms

### 1.Lectures / Intensive Courses

Day	Period	Special Integrated Science Course	International Physics Course
Mon	1		
	2		
	3		Solid State Theory <b>24P038</b> Kuroki <b>E310</b>
	4		
	5		
Tue	1	②Organic Biochemistry <b>24S083</b> Kajihara <b>D307</b>	
	2	①Protein Chemistry <b>24S084</b> Hojo <b>D307</b>	
	3	Introductory Biology <b>24S057</b> Islam <b>B208</b>	High Energy Astrophysics <b>24P047</b> Inoue <b>F102</b>
	4		
	5		
Wed	1		
	2		
	3		
	4		Theoretical Particle Physics I <b>24P048</b> Satoshi Yamaguchi <b>B308</b>
	5		
Thu	1		
	2		Quantum Field Theory I <b>24P033</b> Onogi <b>B301</b>
	3		
	4		
	5		
Fri	1		
	2		Optical Properties of Matter <b>24P029</b> Kimura, Hiroshi Watanabe <b>E211</b>
	3		
	4	②Thermal and Entropic Science <b>24S087</b> Nakano <b>D301</b>	Nuclear Physics in the Universe <b>24P031</b> Sun Young Ryu <b>B307</b>
	5	①Bio/Chemoinformatics <b>24S076</b> Mizuguchi ,Hashimoto, Nagao, Natsume <b>D301</b>	
Intensive Course		Current Topics II (※) <b>24S015</b> 「Current Topics of Molecule-based Magnets」 Joel Steven Miller Notified on the board	Topical Seminar I (※) <b>24P019</b> 「Introduction to Quantum Monte Carlo method and its application in Dynamical mean-field theory」 Changming Yue Notified on the board
		Current Topics XVI (※) <b>24S070</b> 「The dynamics of nucleocytoplasmic transport;dysfunctions,and implication for disease」 IMAMOTO Naoko Notified on the board	

■Note 1. Class Time :    The first period    8:50~10:20    The fourth period    15:10~16:40  
                                  The second period    10:30~12:00    The fifth period    16:50~18:20  
                                  The third period    13:30~15:00  
                                  ①=Spring term    ②=Summer term

## Spring and Summer terms

### 2. Others

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

**【Note】**

◎:For students enrolling in the Spring term, please register online for subjects in the registration period of the Spring term.

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

Special Integrated Science Course			
Program	Course	Teaching staff	Code
Master	Science Core I	Furuya	24S088
Master	Science Core III	Furuya	24S090

Program	Course	Date	Room	Teaching staff	Code
Master	Biological Science I	7/2(W)10:30~18:20	D407	Shindo Kato	24S032
Master	Biological Science XI	4/11(F)10:30~18:20	IPR Lecture Hall	Suzuki	24S052

Special Integrated Science Course／International Physics Course			
Program	Course	Teaching staff	Code
Master	Radiation science in the environment	Ideguchi Takahashi Michio Okada	24P044

**3. Seminars for the Master's Program****Chemistry**

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Kajihara	24S332
Semestral Seminar	Ishikawa	24S394
Semestral Seminar	Kabayama	24S417
Semestral Seminar	Kasamatsu	24S826
Semestral Seminar	Mizutani	24S828
Semestral Seminar	Suzuki (Takayoshi)	24S843
Semestral Seminar	Funahashi	24S856
Semestral Seminar	Nakazawa	24S869
Semestral Seminar	Hojo	24S871

**Physics**

International Physics Course		
Course	Teaching staff	Code
Semestral Seminar II	KIMURA(Shin-ichi)	24P310
Semestral Seminar II	Onogi	24P324
Semestral Seminar II	Sentoku	24P332
Semestral Seminar II	Fujioka	24P337
Semestral Seminar II	Niimi	24P359
Semestral Seminar II	Oiwa	24P371
Semestral Seminar II	Kanemura	24P387
Semestral Seminar II	Tamii	24P418
Semestral Seminar IV	Yoshida (Kenichi)	24P304
Semestral Seminar IV	Fujioka	24P339
Semestral Seminar IV	Takada	24P353
Semestral Seminar IV	Niimi	24P361
Semestral Seminar IV	Kanemura	24P389

**Biological Sciences**

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Mizuguchi	24S379
Semestral Seminar	Furukawa	24S383
Semestral Seminar	Nakagawa	24S400
Semestral Seminar	Shinohara	24S411
Semestral Seminar	Suzuki(Madoka)	24S430
Semestral Seminar	Furuta	24S431
Semestral Seminar	Nakai	24S838
Semestral Seminar	Okada	24S847

**Macromolecular Science**

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Hashidzume	24S877

## Spring and Summer terms

### 4. Seminars for the Ph. D. Program

#### ■【Students Enrolling in the Spring Term】

##### Chemistry

Special Integrated Science Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Spring to Winter)	Nakazawa	24S325
Seminar for Advanced Researches (Spring to Winter)	Mizuguchi	24S406
Seminar for Advanced Researches (Spring to Winter)	Toyoda	24S815
Seminar for Advanced Researches (Spring to Winter)	Funahashi	24S842
Seminar for Advanced Researches (Spring to Winter)	Suzuki (Takayoshi)	24S868

##### Biological Sciences

Special Integrated Science Course		
Course	Teaching staff	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)	Suzuki(Madoka)	24S809
Seminar for Advanced Researches (Spring to Winter)	Shinohara	24S811
Seminar for Advanced Researches (Spring to Winter)	Furukawa	24S836
Seminar for Advanced Researches (Spring to Winter)	Ishihara	24S859
Seminar for Advanced Researches (Spring to Winter)	Shiga	24S864
Seminar for Advanced Researches (Spring to Winter)	Mizuguchi	24S866

##### Macromolecular Science

Special Integrated Science Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Spring to Winter)	Yamaguchi	24S385
Seminar for Advanced Researches (Spring to Winter)	Terao	24S803
Seminar for Advanced Researches (Spring to Winter)	Takashima	24S860

##### Physics

International Physics Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Spring to Winter)	Kanemura	24P318
Seminar for Advanced Researches (Spring to Winter)	Sentoku	24P347
Seminar for Advanced Researches (Spring to Winter)	Fujioka	24P349
Seminar for Advanced Researches (Spring to Winter)	Aoki	24P362
Seminar for Advanced Researches (Spring to Winter)	Tamii	24P364
Seminar for Advanced Researches (Spring to Winter)	Oiwa	24P366
Seminar for Advanced Researches (Spring to Winter)	KIMURA(Shin-ichi)	24P367
Seminar for Advanced Researches (Spring to Winter)	Toyoda	24P368
Seminar for Advanced Researches (Spring to Winter)	Yoshino	24P381
Seminar for Advanced Researches (Spring to Winter)	Matstuno (Jobu)	24P390



## Fall and Winter terms

### 5. Lectures / Intensive Courses

Day	Period	Special Integrated Science Course	International Physics Course
Mon	1		
	2		High Energy Physics Aoki 24P039 E304
	3		
	4	Basic Macromolecular Science 24S059 Yamaguchi Hiroyasu, <i>et al.</i> B301	Theoretical Particle Physics II 24P049 Nishioka E211
	5		Computational Physics 24P040 Sentoku B214
Tue	1	④Functional Molecules and Materials 24S093 Saito D301	
	2	④Complex Molecular Chemistry 24S080 Suzuki D301	
	3	③Biological Regulation Chemistry 24S095 Yamaguchi Satoshi D301	
	4	Topics in Inorganic Chemistry 24S048 Funahashi, Ishikawa, Yoshimura D301	
	5		
Wed	1		
	2		
	3		
	4		
	5		
Thu	1		
	2		
	3		③Electrodynamics and Quantum Mechanics ◆24P043 Baiotti B302
	4		
	5		
Fri	1		
	2	③Analytical Chemistry for Interface 24S078 Tsukahara ONLINE	Quantum Field Theory II 24P026 Sato D301
	3		
	4		
	5		
Intensive Course		Current Topics I (※) 24S014 「TBA」	Topical Seminar II (※) 24P020 「Giant Resonances:the Electric and Charge-Exchange Modes in Direct and Inverse Reactions」
		TBA Notified on the board	HARAKEH Mohsen Nayef Notified on the board
		Current Topics XI (※) 24S065 「TBA」 UENO Takafumi Notified on the board	

■ Note 1. Class Time :    The first period    8:50~10:20    The fourth period    15:10~16:40  
                                  The second period    10:30~12:00    The fifth period    16:50~18:20  
                                  The third period    13:30~15:00

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	Code
Master	Advanced Chemical Experiment (Fall to Summer)	Funahashi, Shimoyama	24S010 (★)
Master	Interactive Seminar (Fall to Summer)	Funahashi	24S024 (★)
Master	Basic Biology II (Fall and Winter)	Professors in Department of Biological Sciences	24S002
Ph. D.	Interactive Seminar for Advanced Research (Fall and Winter)	Funahashi	24S408

**【Note】**

★:For students enrolling in the Fall term, please register online for subjects in the registration period of the Fall term.

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

Special Integrated Science Course			
Program	Course	Teaching staff	Code
Master	Science Core II	Furuya	24S089
Master	Science Core IV	Furuya	24S091

Program	Course	Date	Room	Teaching staff	Code
Master	Biological Science III	10/3(F)13:30~16:40 10/10(F)13:30~16:40	IPR Lecture Hall	Shinohara Ito	24S034
Master	Biological Science V	12/12(F)13:30~16:40 12/19(F)13:30~16:40	IPR Lecture Hall	Furukoori	24S036
Master	Biological Science VII	1/7(W)13:30~16:40 1/14(W)13:30~16:40	D307	Nakagawa	24S038
Master	Biological Science IX	12/3(W)10:30~15:00 12/10(W)10:30~15:00	D307	Li-Kun Phng	24S050
Master	Biological Science XIII	11/7(F)13:30~16:40 11/14(F)13:30~16:40	IPR Lecture Hall	Mizuguchi Nagao Natsume	24S054

## 7. Seminars for the Master's Program

### Chemistry

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Kajihara	24S333
Semestral Seminar	Taniguchi	24S381
Semestral Seminar	Ishikawa	24S395
Semestral Seminar	Kabayama	24S418
Semestral Seminar	Yoshinari	24S421
Semestral Seminar	Kasamatsu	24S427
Semestral Seminar	Mizutani	24S829
Semestral Seminar	Suzuki (Takayoshi)	24S844
Semestral Seminar	Funahashi	24S857
Semestral Seminar	Nakazawa	24S865
Semestral Seminar	Hojo	24S870

### Physics

International Physics Course		
Course	Teaching staff	Code
Semestral Seminar I	Niimi	24P358
Semestral Seminar I	Kanemura	24P386
Semestral Seminar I	Nanjo	24P409
Semestral Seminar I	Noumi	24P413
Semestral Seminar I	Tamii	24P417
Semestral Seminar III	KIMURA(Shin-ichi)	24P311
Semestral Seminar III	Onogi	24P325
Semestral Seminar III	Sentoku	24P333
Semestral Seminar III	Fujioka	24P338
Semestral Seminar III	Oiwa	24P372
Semestral Seminar III	Kanemura	24P388

### Biological Sciences

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Mizuguchi	24S380
Semestral Seminar	Furukawa	24S384
Semestral Seminar	Nakagawa	24S401
Semestral Seminar	Shinohara	24S412
Semestral Seminar	Suzuki(Madoka)	24S420
Semestral Seminar	Furuta	24S426
Semestral Seminar	Nakai	24S839
Semestral Seminar	Okada	24S848

### Macromolecular Science

Special Integrated Science Course		
Course	Teaching staff	Code
Semestral Seminar	Hashidzume	24S878

## Fall and Winter terms

# 8. Seminar for the Ph. D. Program

## ■【Students Enrolling in the Fall Term】

### Chemistry

Special Integrated Science Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Fall to Summer)	Akai	24S328
Seminar for Advanced Researches (Fall to Summer)	Kubo	24S370
Seminar for Advanced Researches (Fall to Summer)	Kaneda	24S413
Seminar for Advanced Researches (Fall to Summer)	Kabayama	24S414
Seminar for Advanced Researches (Fall to Summer)	Ishikawa	24S422
Seminar for Advanced Researches (Fall to Summer)	Nakazawa	24S832
Seminar for Advanced Researches (Fall to Summer)	Kajihara	24S834
Seminar for Advanced Researches (Fall to Summer)	Suzuki(Takayoshi)	24S853
Seminar for Advanced Researches (Fall to Summer)	Saito	24S861
Seminar for Advanced Researches (Fall to Summer)	Mizuguchi	24S867

### Biological Sciences

Special Integrated Science Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Fall to Summer)	Shinohara	24S329
Seminar for Advanced Researches (Fall to Summer)	Furuya	24S835
Seminar for Advanced Researches (Fall to Summer)	Matsuno(Kenji)	24S837
Seminar for Advanced Researches (Fall to Summer)	Nakai	24S854
Seminar for Advanced Researches (Fall to Summer)	Hikida	24S855
Seminar for Advanced Researches (Fall to Summer)	Suzuki(Madoka)	24S863
Seminar for Advanced Researches (Fall to Summer)	Mizuguchi	24S872
Seminar for Advanced Researches (Fall to Summer)	Okada	24S873
Seminar for Advanced Researches (Fall to Summer)	Li-Kun Phng	24S875
Seminar for Advanced Researches (Fall to Summer)	Hojo	24S876
Seminar for Advanced Researches (Fall to Summer)	Ishihara	24S881

### Macromolecular Science

Special Integrated Science Course		
Course	Teaching staff	Code
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)	Inoue	24S817
Seminar for Advanced Researches (Fall to Summer)	Takashima	24S874

### Physics

International Physics Course		
Course	Teaching staff	Code
Seminar for Advanced Researches (Fall to Summer)	Ideguchi	24P345
Seminar for Advanced Researches (Fall to Summer)	Otsuka	24P348
Seminar for Advanced Researches (Fall to Summer)	Toyoda	24P363
Seminar for Advanced Researches (Fall to Summer)	Fujioka	24P365
Seminar for Advanced Researches (Fall to Summer)	Koshino	24P383
Seminar for Advanced Researches (Fall to Summer)	Ishii	24P384
Seminar for Advanced Researches (Fall to Summer)	Asakawa	24P385
Seminar for Advanced Researches (Fall to Summer)	Onogi	24P399
Seminar for Advanced Researches (Fall to Summer)	Fukaya	24P400
Seminar for Advanced Researches (Fall to Summer)	Yorita	24P402
Seminar for Advanced Researches (Fall to Summer)	Oiwa	24P403
Seminar for Advanced Researches (Fall to Summer)	Niimi	24P404