

## TIGP Course Schedule for 2017 Spring Semester

Please click on the course for detailed information.

Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Morning	9:00 ~	9:00-12:00 Elementary Chinese Class	9:00-12:00 (Bio) Basic Molecular Biology II	9:00-12:00 (ESS) Atmospheric Dynamics	9:00-12:00 (Bio) Advanced Statistical Methods in Bioinformatics	9:00-12:00 (ESS) Physical Oceanography	9:00-12:00 (CBMB) Computer Modeling for Drug Design
		9:00-12:00 (SCST) Organometallic Chemistry	9:00-12:00 (SNHCC) Social Multimedia	9:00-12:00 (ESS) Global Seismology	9:10-12:00 (Nano) Computational Materials Science	9:10-12:10 (CBMB) Discussion in Advanced Chemical Biology II	9:00-12:00 (CBMB) Pharmaceutical Chemistry
		9:00-12:00 (CBMB) Chemistry of Natural Products	9:10-12:00 (MST) Introduction to Recent Trends in Atomic and Molecular Physics	9:00-12:00 (ESS) Numerical Ocean Modeling		9:30-12:30 (Nano) Advanced Nanotechnology B	9:00-12:00 (CBMB) Chemistry of Natural Products
		9:00-12:00 (ESS) Special Topics on Atmospheric Remote Sensing		9:00-12:00 (SCST) Introduction to Sustainable Chemical Science and Technology II			
		9:10-10:00 (MST) Advanced Physical Chemistry (II)		9:10-12:00 (Nano) Advanced Nanotechnology A			
	10:00 ~	10:00-12:00 (INS) Clinical Perspectives of Neurological disorders	10:00-12:00 (MBAS) Plant Reproductive Biology	10:10-12:00 (MM) Immunology		10:00-11:50 (MM) Special Topics in Neurobiology	
			10:20-12:10 (MST) Advanced Physical Chemistry (II)				
Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Afternoon	13:00 ~	13:00-16:00 (CBMB) Chemistry of Natural Products	13:00-16:00 (ESS) Health Risk Assessment for Environmental Pollution Issue	13:00-14:00 (ESS) Seminar and Research Discussion IV			
			13:20-16:20 (BIODIV) Conservation Biology				
			13:30-16:20 (MM) Molecular Medicine				
	14:00 ~	14:00-17:00 (CBMB) Pharmaceutical Chemistry	14:00-17:00 (CBMB) Experimental Molecular Biophysics	14:00-16:00 (MST) Seminar	14:00-15:30 (Bio) Seminar (Faculty Presentation)	14:00-17:00 Elementary Chinese Class	14:00-17:00 (CBMB) Computer Modeling for Drug Design
		14:00-17:00 (MBAS) Molecular & Cellular Approaches to Biotechnology	14:00-17:00 (MBAS) Agricultural Microbiology	14:00-16:00 (MST) Special Topics on Molecular Science and Technology II	14:00-16:50 (MCB) To be a Scientist: Perspectives and Essential Skills	14:00-17:00 (Bio) Advanced Algorithms	
		14:20-17:20 (BIODIV) Ecology and Conservation		14:00-16:00 (SNHCC) Seminar	14:00-17:00 (CBMB) Chemistry of Natural Products	14:00-17:00 (SCST) Advanced Chemistry of Materials	
				14:10-16:00 (Nano) Seminar	14:00-17:00 (CBMB) Pharmaceutical Chemistry		
				14:20-17:20 (BIODIV) Biostatistics	14:00-17:00 (SNHCC) Natural Language Processing and Informamtion Retrieval with Applications in Social Networks		
				14:30 ~ 16:30 (SCST) Seminar	14:10-17:00 (Nano) Characterization, Fabrication and Manipulation at Nanometer Scale		
	15:00 ~		15:20-16:10 (MST) Seminar of Molecular Science and Technology		15:30-17:00 (Bio) Student Presentation		
	16:00 ~	16:00-18:00 (CBMB) Mass Spectrometry Based proteomics	16:20-19:10 (MST) Special topics on Molecular Science and Technology				
			16:30-19:30 (Nano) Special Topics on Solid State Physics: Advances and Applications				
18:00 ~	18:00-21:00 (CBMB) Computer Modeling for Drug Design			18:00-21:00 (CBMB) Computer Modeling for Drug Design			

# Chinese Courses

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Elementary Chinese Class	Required for foreign students	0	Ms. Chi	Monday 9:00~12:00	2/13~ 6/26	Room 207, TIGP Building 2F
2	Elementary Chinese Class	Required for foreign students	0	Ms. Huang	Friday 14:00~17:00	2/17~ 6/23	Room 207, TIGP Building 2F



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# CBMB

For the most up-to-date information, please refer to: <http://proj1.sinica.edu.tw/~tiqpcbmb/courses.htm>

No.	Course Name	Required or Elective	Credit	Coordinator	Special Requirements	Course Information	Semester Dates	Building (Location)
1	Discussion in Advanced Chemical Biology II	R/E	3			Fridays: 9:10am - 12:10pm (First lesson is on 24th February.)		Room 121, Department of Chemistry, National Taiwan University
2	Experimental Molecular Biophysics	R/E	3			Tuesdays: 2:00pm - 5:00pm (First lesson is on 21st February.)		Institute of Biological Chemistry, Room 102, AS
3	Pharmaceutical Chemistry	E	2		Students who intend to take the class for <b>certificates only</b> : register the class at <a href="http://www.ibt.sinica.edu.tw/ucd-as/Regis.asp">http://www.ibt.sinica.edu.tw/ucd-as/Regis.asp</a> between mid-February and late March. Students who intend to take the class for <b>certificates and credits</b> : 1. register the class at <a href="http://www.ibt.sinica.edu.tw/ucd-as/Regis.asp">http://www.ibt.sinica.edu.tw/ucd-as/Regis.asp</a> between mid-February and late March. No application fee required. 2. Register the class via the course selection system of your registered university For more information, please visit: <a href="http://www.ibt.sinica.edu.tw/ucd-as/Prog.html">http://www.ibt.sinica.edu.tw/ucd-as/Prog.html</a> <b>For Computer Modeling for Drug Design:</b> **The AST students may attend whichever lab periods they wish in order to complete the computational experiments -- depending on how efficiently they work, that should be 4-5 lab periods. In order to receive credit for the completing the course, the AST students will need to complete, satisfactorily, all of the short post-lab reports associated with the computational experiments. By carrying out the computational experiments and completing the post-lab reports, they will have gained sufficient experience with modern drug design software to be able to apply these tools to problems in their research as desired.	Mondays (optional): 2pm - 5pm (consultation, discussion and/or self-study time) Thursdays: 2pm - 5pm Saturday: 9am - 12pm Please refer to Calendar at <a href="http://www.ibt.sinica.edu.tw/ucd-as/">http://www.ibt.sinica.edu.tw/ucd-as/</a> for course schedule.	4/6-4/29	
4	Chemistry of Natural Products	E	2			Mondays (optional): 9am - 12pm (consultation, discussion and/or self-study time) & 1pm - 4pm Thursdays: 2pm - 5pm Saturday: 9am - 12pm Please refer to Calendar at <a href="http://www.ibt.sinica.edu.tw/ucd-as/">http://www.ibt.sinica.edu.tw/ucd-as/</a> for course schedule.	5/4-5/20	
5	Computer Modeling for Drug Design	E	2			Mondays & Thursdays: 6pm - 9pm Saturdays: 9am-12pm & 2pm-5pm Please refer to Calendar at <a href="http://www.ibt.sinica.edu.tw/ucd-as/">http://www.ibt.sinica.edu.tw/ucd-as/</a> for course schedule.	5/20-6/8	
6	Mass Spectrometry Based proteomics	E	1	Kay-Hooi Khoo		Mondays: 4pm - 6pm (First lesson is on 20th February.)		Rm409, IBC

# MST

For the most up-to-date information, please refer to:

<http://tiqp.iams.sinica.edu.tw/>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Advanced Physical Chemistry (II) (高等物理化學二)	Elective	3	Michitoshi Hayashi Jer-Lai Kuo	Monday 9:10-10:00  Wednesday 10:20-12:10	2/20~ 6/16	R121, Chemistry Building, NTU  臺大化學系館 121教室
2	Special topics on Molecular Science and Technology [3] (Required Course) 分子科學與技術專題研究[3]	Required (Chemistry group)	3	Yuh-Lin Wang	Tuesday 16:20~19:10	2/20~ 6/16	R311,IAMS 中研院原分所
3	Special Topics on Molecular Science and Technology II 分子科學與技術專題研究 II	Required (Physics group)	0	Wei-Hua Wang	Wednesday 14:00-16:00	2/20~ 6/16	R311,IAMS 中研院原分所
4	Seminar of Molecular Science and Technology (分子科學與技術書報討論)	Required (Chemistry group)	1	Yuh-Lin Wang	Tuesday 15:20~16:10	2/20~ 6/16	R311,IAMS 中研院原分所
4	Seminar (書報討論)	Required (Physics group)	2	Wei-Hua Wang	Wednesday 14:00-16:00	2/20~ 6/16	R311,IAMS 中研院原分所
5	Introduction to Recent Trends in Atomic and Molecular Physics [3] (Elective Course) 當代原子與分子物理導論[3]	Elective	3	Kopin Liu	Tuesday 9:10-12:00	2/20~ 6/16	R311,IAMS 中研院原分所



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# MBAS

For the most up-to-date information, please refer to:

<http://abrc.sinica.edu.tw/mbas/course.php>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Molecular & Cellular Approaches to Biotechnology (分子與細胞生物科技)	core	3	Pei-Wen Hsiao (ABRC)	Monday 14:00-17:00	2/20-6/19	Room 236, 2F, Agricultural Technology Building, A.S.
2	Agricultural Microbiology (農業微生物學)	core	3	Erh-Min Lai (IPMB)	Tuesday 14:00-17:00	2/21-6/20	Room 236, 2F, Agricultural Technology Building, A.S.
3	Plant Reproductive Biology (植物生殖生物學)	elective	2	Chung-Ju Rachel Wang (IPMB)	Tuesday 10:00-12:00	2/21-6/20	Room 236, 2F, Agricultural Technology Building, A.S.



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# MCB

For the most up-to-date information, please refer to:

<http://www.imb.sinica.edu.tw/mcb/study.php#courses>

No.	Course Name	Required or Elective	Credit	Coordinator	Special Requirements	Course Information	Semester Dates	Building (Location)
1	To be a Scientist: Perspectives and Essential Skills 【科學研究的洞察力與基本技巧】	Elective	3	Tien-Hsien Chang	the upper limit of students: 30 persons, MCB students have the highest priority	Thursday 14:00-16:50	2/16~6/15	Room 123, Institute of Molecular Biology, Academia Sinica



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# BIO

For the most up-to-date information, please refer to:

<http://tigbbp.iis.sinica.edu.tw/tigbbio/2017Spring.html>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Basic Molecular Biology II 基礎分子生物學 (二) B2	Required	3	Dr. Chung-Hsiung Chang Dr. Sen-Ling Tang	Tuesday 09:00-12:00	2/14~ 6/16	Room 107, New Building of IIS, Academia Sinica
2	Advanced Statistical Methods in Bioinformatics 進階生物資訊統計學 S2	Required	3	Dr. Grace Shieh	Thursday 09:00-12:00	2/16~ 6/16	Room 107, New Building of IIS, Academia Sinica
3	Seminar (Faculty Presentation)	Required	1	Dr. Chun-Yen Lin (Informatics) Dr. Ho-Min Chen (Biology) Dr. Wei-Chung Liu (Statistic);	Thursday 14:00-15:30	2/16~ 6/16	Room 101, New Building of IIS, Academia Sinica
4	Student Presentation	Required	1	Dr. Chung-Hsiung Chan	Thursday 15:30-17:00	2/16~ 6/16	Room 101, New Building of IIS, Academia Sinica
5	Advanced Algorithms 高等演算法 C2	Required	3	Dr Ting-Yi Sung	Friday 14:00-17:00	2/17~ 6/16	Room 107, New Building of IIS, Academia Sinica



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# NANO

For the most up-to-date information, please refer to:

[http://www.phys.sinica.edu.tw/TIGP-NANO/Course/2017\\_Spring.html](http://www.phys.sinica.edu.tw/TIGP-NANO/Course/2017_Spring.html)

No.	Course Name	Required or Elective	Credit	Coordinator	Special Requirements	Course Information	Semester Dates	Building (Location)
1	奈米科技進階 A Advanced Nanotechnology A	Required	3	Wei-Li Lee	for physics background students	Wednesday 9:10-12:00	2/22-6/21	P101, Institute of Physics, AS
2	奈米科技進階 B Advanced Nanotechnology B	Required	3	Yi-Chung Tung Pei-Lin Chen	for chemistry and bio background students	Friday 9:30-12:30	2/24-6/23	P101, Institute of Physics, AS
3	固態物理專題：進階與應用 Special Topics on Solid State Physics: Advances and Applications	Elective	3	Minn-Tsong Lin		Tuesday 16:30-19:30	2/21-6/20	Room 618, Department of Physics, NTU
4	計算材料 Computational Materials Science	Elective	3	Kaito Takahashi Jer-Lai Kuo Mei-Yin Chou		Thursday 9:10~12:00	2/23-6/22	R311, IAMS, AS
5	奈米尺度的量測、製作與操控 Characterization, Fabrication and Manipulation at Nanometer Scale	Elective	3	Chia-Seng Chang		Thursday 14:10-17:00	2/23-6/22	P101, Institute of Physics, AS
6	專題討論 Seminar	Required	1	Faculty		Wednesday 14:10-16:00	2/22-6/7	P101, Institute of Physics, AS



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# MM

For the most up-to-date information, please refer to:

<http://www.ibms.sinica.edu.tw/mmp/page/2-2.htm>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Molecular Medicine (分子醫學)	Required	3	Dr. Chien-Chang Chen	Tuesday 13:30-16:20	2/14~ 6/6 (Two classes on Wed, 3/1 and 4/5)	8th floor, TIGP classroom, IBMS
2	Immunology (免疫學)	Elective	2	Dr. Mi-Hua Tao	Wednesday 10:10-12:00	2/15~ 6/7	8th floor, TIGP classroom, IBMS
3	Special Topics in Neurobiology (神經生物學特論)	Elective	2	Dr. Teng-Nan Lin	Friday 10:00-11:50	1/13~ 6/2	8th floor, TIGP classroom, IBMS



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# ESS

For the most up-to-date information, please refer to:

<http://www.rcec.sinica.edu.tw/tigp-ess/schedule.html>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Physical Oceanography[3] 物理海洋學	Core Course (Aquatic Sciences)	3	Yi-Chia Hsin	Friday 9:00~12:00	2/13~6/16	Room 1121,11F, South Humanities and Social Sciences Building, Academia Sinica
2	Atmospheric Dynamics [3] 大氣動力學	Core Course (Atmospheric Sciences)	3	Huang-Hsiung Hsu	Wednesday 9:00~12:00	2/13~6/16	Room 403, Research Center for Information Technology, Academia Sinica
3	Global Seismology [3] 全球地震學	Core Course (Solid Earth Sciences)	3	Zhoa Li, Bor-Shouh Huang	Wednesday 9:00~12:00	2/13~6/16	Room 314, IES, Academia Sinica
4	Seminar and Research Discussion IV[1] 書報討論	Required Course	3	Shih-Yu Lee, Yi-Chia Hsin, Frederic Deschamps,	Wednesday 13:00~14:00	2/13~6/16	Room 1105A, 11F, South Building, Humanities and Social Sciences Building, Academia Sinica
5	Numerical Ocean Modeling[3] 海洋數值模式	Elective	3	Yi-Chia Hsin	Wednesday 9:00~12:00	2/13~6/16	Room 1121,11F, South Humanities and Social Sciences Building, Academia Sinica
6	Health Risk Assessment for Environmental Pollution Issue 環境汙染之健康風險評估	Elective	3	Shih-Chun Candice Lung/ Shih-Yu Lee	Tuesday 13:00~16:00	2/13~6/16	Room 1105A,11F, South Humanities and Social Sciences Building, Academia Sinica
7	Special Topics on Atmospheric Remote Sensing[3] 大氣遙測專題特論	Elective	3	Chian-Yi Liu	Monday 9:00~12:00	2/13~6/16	Room 110, 1F, R3 Building, Center for Space and Remote Sensing Research, National Central University
8	Chinese Class II[0] 初級中文	Required course for all foreign students	0	Chinese Teacher	Friday 14:00~17:00	2/13~6/16	Room 204, Teaching and Administration Building, Academia Sinica,
9	Chinese Class I[0] 初級中文	Required course for all foreign students	0	Chinese Teacher	Monday 9:00~12:00	2/13~6/16	Room 204, Teaching and Administration Building, Academia Sinica,



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# BIODIV

For the most up-to-date information, please refer to: <http://biodiv.sinica.edu.tw/TIGP-BP/index.php?page=course>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Ecology and Conservation (生態與保育)	Required	3	Teng-Chiu Lin Chung-Chi Chen	Monday 14:20-17:20	2/20~ 6/19	Room S604, Gongguan Campus, NTNU
2	Biostatistics (生物統計學)	Elective	3	Pei-Jen Lee Shaner Mao-Ning Tuanmu	Wednesday 14:20-17:20	2/22~ 6/21	Room B208, BRC, Academia Sinica
3	Conservation Biology (保育生物學)	Elective	3	Chi-Chien Kuo	Tuesday 13:20-16:20	2/21~ 6/20	Room S606, Gongguan Campus, NTNU  Room204, BRC, Academia Sinica



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# INS

For the most up-to-date information, please refer to:

<http://npas.programs.sinica.edu.tw/ins/curriculum.html>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Clinical Perspectives of Neurological disorders	Elective	2	Cheng Ting Chien	Mon 10:00-12:00	3/6-6/26	Room B100, BUILDING IST, Academia Sinica



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# SCST

For the most up-to-date information, please refer to:

<http://tigp-scst.chem.sinica.edu.tw/index.php/course/courses>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Introduction to Sustainable Chemical Science and Technology II 永續化學科技導論 II	Required	3	Ito Chao	Wednesday AM 09:00-12:00	42415	B105, IoC, AS 中研院化學所 B105
2	Advanced Chemistry of Materials 高等材料化學	Elective	3	Chin-Ti Chen	Friday PM 02:00~05:00	42417	B105, IoC, AS 中研院化學所 B105
3	Organometallic Chemistry 有機金屬化學	Elective	3	Tiow-Gan Ong	Monday AM 09:00-12:00	42779	R203 Science Building II NCTU
4	Seminar 書報討論	Required	1	Ito Chao	Wednesday PM 02:30 - 04:30	42415	B105, IoC, AS 中研院化學所 B105



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# SNHCC

For the most up-to-date information, please refer to:

<http://tigpsnhcc.iis.sinica.edu.tw/curstudent.html>

No.	Course Name	Required or Elective	Credit	Coordinator	Course Information	Semester Dates	Building (Location)
1	Natural Language Processing and Informamtion Retrieval with Applications in Social Networks	Required	3	Wen-Lian Hsu	Thursday 1400-1700	2/13~ 6/23	Room N107, Institute of Information Science, AS
2	Social Multimedia	Required	3	Wen-Huang Cheng	Tuesday 0900-1200	2/13~ 6/23	Room O108 Institute of Information Science / NTHU Delta Building
3	Seminar	Required	0	De-Nian Yang	Wednesday 1400-1600	2/13~ 6/7	Room N106, Institute of Information Science, AS



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