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Peisen HUANG Dean, UM-SJTU Joint Institute

66 In today's world, only those with a global perspective will succeed. Hence, the Joint Institute embraces a world-spanning, interdisciplinary view of engineering education. Our international programs form an integral part of this philosophy, allowing students to immerse themselves in other cultures and to learn about engineering approaches the world over.

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WINTER PROGRAMS

The perfect opportunity to experience studying abroad in a safe environment, right from the first year at JI. Spend 4-6 weeks in January and February to learn about culture, business, engineering or languages on four continents. All programs feature cultural programs and some also include a free travel period that allow you to explore independently.

The courses listed on the following pages are those offered in 2019; there may be adjustments for 2020.

Argentina Technological Institute of Buenos Aires

Duration3 weeks courses + 1 week independent travelCourseData Analysis, Applied Mechanics, Spanish Language and CultureOpen toAll students

66 Never before would I have thought I would one day go to the furthest place of where I live on Earth and regard that place as home for an entire month. Never before would I have expected that the teachers, buddies, and hosts in ITBA and Buenos Aires would be so overwhelmingly friendly and caring to us throughout the whole time. And never before would I have imagined to have the one of a kind experience of hiking within the breathtaking landscape of the Moreno Glaciers and be at the end of the world to meet wild penguins. "I'll be back. You have my promise." "I want to live like an Argentine." "Mark my words: One day I will settle down beside the Argentina Lake." Dreams have become promises, just as to return to where we met and who we were in that unforgettable summer of 2019.

Li Tianjun First-year student

Australia University of Adelaide

Duration 4 weeks courses + 1 week independent travel

Course Engineering Acoustics Open to 2nd-year students and above

66 The winter program in Australia is really awesome. You can experience a natural environment that is very different and extremely beautiful. The teaching quality in the University of Adelaide is also quite excellent, and I had a very good time studying there. Hope that one day I could go back! Xie Jinglei

McGill University Canada

Duration 3 weeks courses + 1 week independent travel Courses Entrepreneurship, International Business, Business Analytics, Introduction to Big Data, Machine Learning, and more Open to All students

66 What impressed me most in the past three weeks is that we get to live in the city center of Montreal. To travel to University of McGill, which is outside the city center, we have to walk across the CBD area or through the underground city, encountering people who are rushing in between home and work. To commute like this, to cook on our own and to hide from the heavy storm is a lifestyle we never get to try before and we quite enjoy living like a local!

Feng Hanyang, First-year student



France UT Troyes

Duration4 weeks courses + 1 week independent travelCoursesProject Management, French LanguageOpen toAll students

66 Attending the UTT Winter Program was an unforgettable experience. The French course enabled us to explore France--the country of romance, and the project management course trained our skills that would be useful in a future engineering project. Besides, France has beautiful sceneries as well as long and fascinating history, making it an ideal location for a winter vacation. **Zhong Zhen**

Germany TU Berlin (Tech)

Duration4 weeks courses + 1 week independent travelCoursesCanSat: Hands on Satellite Design, Programming in Java,Startup Crash Course, 3D Printing, Artificial Intelligence and RoboticsOpen toAll students

66 Me and my friends experienced the most advanced technologies in the world as well as the unique European culture during the TUB Tech winter program. In classrooms, we got to pitch our own ideas at the start-up crash course, learning how to look at business from a brand new angle. At weekends, TUB organized various cultural activities to fill our spare time, allowing us to interact, also exchange jokes and laughs with teachers and students from all over the world. Traveling in Switzerland, Czech, Netherlands and other cities in Germany was awesome too. The experience has left us with tons of exciting moments and so many pictures that we don't want to delete. **Yang Zigi,**

First-year student

<u>Germany</u> TU Berlin (Language)

Duration 4 weeks courses + 1 week independent travel Courses German Language (Vw110) Open to All students

66 Language learning is a profound process which contains not only vocabulary, gramma and pronunciation but also the culture that the language belongs to. We visited historical exhibition in Berlin, car factories in Leipzig and Dresden, and communicated a lot with local people. After the program, most of us continue to learn German, wishing to have a deeper understanding of the nation, the people and the language.

Chen Yujie



Viva DU International Programs Office UM-SJTU Joint Institute

66 Get out of your comfort zone and dive into a world of opportunity! There is so much to see and experience; don't miss out on the adventure!



Japan Ritsumeikan University

 Duration
 3 weeks courses + 1 week independent travel

 Courses
 Japanese Language and Culture

 Open to
 All students

66 I really enjoyed my time in Kyoto, as well as at Ritsumeikan University. Mr. Tanaka and other teachers were very kind and helpful. During the program, I did many fun activities and visited lots of beautiful temples and shrines. I even went to Osaka for my idol's live show! I will definitely return in the future. **Shen Tianhong**,

Fourth-year student in electrical and computer engineering

Japan Sophia University

Duration4 weeks courses + 1 week independent travelCoursesJapanese Language, Japanese Business and Economy,Education in Japan, Contemporary Japanese Culture and Society, Mediaand Contemporary Issues in JapanOpen toAll students

66 The program with Sophia university is a good chance to know and learn more about our neighbor, Japan. In Sophia, you can have a totally different perspective to see the world. Shi Jian





Russia

St. Petersburg Polytechnic University

Duration2 weeks courses + 1 week independent travelCoursesTurbomachinery, Nuclear Engineering, Electrical EngineeringOpen toAll students

I like for you to be still; as though voices are absorbed by the heavy snow. I like for you to be still; waiting for another challenging moment. And I am happy, happy to have seen everything true and pure.
Zhong Shijie
First-year student

Spain University of Navarra

Duration 4 weeks courses + 1 week independent travel Courses Machine Learning and Data Analytics, Spanish: Communication and Culture

Open to All students

66 The Spain program consists of tech lectures, language courses, designed city trips and a one-week self-guided tour. During our stay in Spain, not only did we learn a lot, but we also enjoyed the fantastic scenery and experienced the local customs and culture. The winter program in Spain is a really meaningful and unforgettable trip, broadening our horizons and strengthening our friendship.

Ji Yuyuan First-year student



United Kingdom University of Warwick

Duration	4 weeks courses + 1 week independent travel
Courses	Humanitarian Engineering
Open to	All students
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44 The 27 days in UK gave us enough time to experience this great country. Enthusiastic, poetic, graceful, traditional, vigorous, diverse, that is England. Monotonous food, capricious climate, invasive history, precarious society, that is also England. All of them form the memorable and wonder England in my deep deep dream. Li Beiming

First-year student

United States Massachusetts Institute of Technology

Duration 2 weeks courses + 1 week independent travel Courses Mechanic Design, Computer Science, Electrical Engineering, Cyber security, Computer science in healthcare and Computer programming Open to All students

66 The three-week-long winter program is a brilliant journey overall. We have gained a rich fund of knowledge, special tastes of another country's culture and many new good friends. There were unforgettable times when we stared at the flourishing city, painting the darkened night sky with wonderful memories and expectations. Bai Yuanchen First-year student



Horst HOHBERGER Faculty Advisor of International Programs UM-SJTU Joint Institute

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Going on a one-semester exchange program may easily be the most exciting, profound and life-altering decision you make. Only one thing is certain: you won't regret it!



EXCHANGE PROGRAMS

By spending an entire term abroad at a leading international university, you can truly immerse yourself into a different culture, establish international friendships and experience the academic atmosphere and teaching at world-renowned universities.

The ideal time to plan a semester abroad is in your third year of study, although other terms are also possible. The study schedule at JI is able to quite flexibly accommodate your own plans.

Even better, it is often possible to combine an exchange program abroad with a Global Degree Pathway program, to create the ultimate in international study experience!

Deadlines September for Spring and Summer outbound, March for Fall outbound
Materials Academic information, study plans, transcript, TOEFL and personal statement.
Procedure JI Online Application – Screening and Interviews – Confirm Candidates and Nominations – Host University Online Application – Visa Applications – Study Abroad!

Belgium KU Leuven

The Catholic University Leuven is one of the oldest and largest universities in Belgium, tracing its history to the old University of Leuven, which was founded in Leuven in 1425. It has a world-wide recognized reputation for innovation and cutting-edge science and is counted among the leading universities of the world. Currently, around 60,000 students study at its main campus in Leuven or one of the numerous satellite campuses, scattered throughout Belgium.



Term Dates

FallSeptember - FebruarySpringFebruary - early June

66 The semester I spent at KU Leuven is full of unforgettable memories. In addition to the beautiful nature and historic sceneries I've visited, people there are also wonderful, always making me feel at home. My professors are so nice that I can ask questions anytime, even chat with them. Local students are so friendly that they always invite us to parties, or do fun things together. I will never forget the people I met in Belgium! Liu Ziwei

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TU Munich Germany

The Technical University Munich (TUM) is one of Germany's most renowned technical universities, with a history going back to 1868. It is dedicated to engineering and the science, with nearly all of its 40,000 students enrolled in a technical degree program.

The TUM is a great place to take engineering courses and learn about diverse subjects such as wind energy, vehicle engineering and other modern areas. Students may take courses in any department, including physics, computer science and electrical engineering.



Fall October - March Spring April - July

66 The greatest gift I received from studying at TUM was the people I met and worked with. They are so reliable and enthusiastic! I also love the classes I took. The high quality of teaching makes me realize how lucky I am to choose to study over there. In particular, I get to take any courses I'm interested, which allows me to learn something new other than my major. I'm grateful to everyone who's helped me!

Li Songqian

Third-year student in electrical and computer engineering

TUM		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
1574	Image Processing in Physics	5	Flexible Tech. Elective	400	
2017	Approximate Dynamic Programming and Reinforcement Learning	4	Flexible Tech. Elective	400	ME
3113	Coding Theory and Combinatorics	3	Flexible Tech. Elective	400	ECE
IB2067	Robotics	4	Flexible Tech. Elective	400	EE&ME
MW0055	Basics of Motor Vehicle Construction	3	VM458		



Germany

Karlsruhe Institute of Technology

The KIT was created in 2009 when the University of Karlsruhe (founded in 1825) was merged with the Karlsruhe Research Center. KIT is one of Germany's leading research institutions in science and engineering, ranking first in Germany and among the top 10 European universities as measured by published research papers.

Fourth-year students are encouraged to take courses at the Karlsruhe School of Optics and Photonics, which is an international graduate school of KIT. There, they can take courses preparing for specializations in Photonic Materials & Devices, Advanced Spectroscopy, Biomedical Photonics, Optical Systems and Solar Energy. Courses in Artificial Intelligence, Machine Learning are also available from other departments.

Term Dates

FallOctober - MarchSpringApril - July

Studying abroad at KIT is a chance for me to step out of my comfort zone and visit places I've never been. Courses are competitive, covering various areas. No matter which subject you're in, you are always able to find courses of your own interest. Also, I really enjoyed sceneries – Karlsruhe is so convenient to travel around, not only in Germany, but also in Europe. Overall it's an unforgettable experience for me!

Feng Shuwan

Third-year student in electrical and computer engineering





KIT		UM-SJTU Joint Institute						
Code	Title	Credits	Equivalency	Level	Field			
T-MATH-105889	Mathematical	5	Flexible Tech. Elective	400	Mathematics			
	Modelling and							
	Simulation in							
	Practise							
A0&P-TM-NL0	Nonlinear Optics	4	Flexible Tech. Elective	400	ECE			
Phys0&P-F0P	Fundamentals of	3	Flexible Tech. Elective		ECE			
	Optics and							
	Photonics							
Eng0&P-0E	Optical	4	Flexible Tech. Elective	400	ECE			
	Engineering							
A0&P-TM-TO	Theoretical	3	Flexible Tech. Elective	400	ECE			
	Optics							



Cermany FAU Erlangen

The Friedrich-Alexander University of Erlangen-Nürnberg was founded in 1743 and has an illustrious history of scientific innovation. Today, it is one of Germany's top research universities in engineering. Many of its engineering departments are very highly regarded and some form part of the prestigious "excellence clusters" in Germany.

Third- and fourth-year students can take a wide variety of courses at the FAU, ranging from automotive industrial studies to the architecture of super computers. Both mechanical engineering and electrical and computer engineering subjects are well-represented.

Term Dates

Fall October - March **Spring** April - July

FAU		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
	Statistics Signal	4	Flexible Tech. Elective	400	ECE
	Processing				
110334	Reconfigurable	6	Flexible Tech. Elective	400	
	Computing with				
	Exercises				
42501	Nonlinear Finite	4	Flexible Tech. Elective	400	
	Elements				
44501	Computational	4	Flexible Tech. Elective	400	
	Dynamics				
71501	Laser	4	Flexible Tech. Elective	400	
	Technology				



^{Germany} RWTH Aachen

With more than 44,000 students, the RWTH Aachen is Germany's largest university focusing on technical subjects. It receives the most external funding of all German universities and is highly regarded internationally. Within Germany, it is regularly recognized as having the best programs in electrical, mechanical and chemical engineering.

Junior and Senior students can take a wide variety of courses at the RWTH Aachen ranging through all fields of engineering.

Term Dates

Fall October - March **Spring** April - July

G RWTH Aachen University is a place one can enjoy both studying and living. The curriculum here is designed to develop students' interests, making studying a pleasant journey to take on. On the boarder of Germany, the university is close to Netherlands and Belgium, making travel around a breeze. **Hu Yuwen**

Third-year student in electrical and computer engineering





RWTH Aachen		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
MSAE1001/13	Fundamentals of	3	VM320		
	Fluid Power				
MSBWL-233/13	Service Design &	3	Flexible Tech. Elective	400	ME
	Engineering				
MSCAME-1506/12	Industrial	Pending	Flexible Tech. Elective	300	
	Engineering,				
	Ergonomics and				
	Work				
	Organisation				
MSMME-1104/13	Quality	3	Flexible Tech. Elective	300	
	Management				
MSSISC-5502	Machine Design	3	General Elective	200	ME
	Process				
MSSiSc5302	Process	2	Flexible Tech. Elective	400	ME
	Measurement				



TU Delft Netherlands

The Delft University of Technology is one of the leading engineering research universities in Europe. Founded in 1842, it currently has 19,000 students in applied sciences and engineering.

The Joint Institute has a student exchange agreement allowing senior students to take courses at one of four participating faculties at the TU Delft:

- Faculty of Aerospace Engineering (AE)
- Faculty of Electrical Engineering, Mathematics and Computer Sciences (EEMCS)
- Faculty of Industrial Design Engineering (IDE)
- Faculty of Mechanical, Maritime and Materials Engineering (3ME)

Term Dates

FallSeptember - JanuarySpringFebruary - July

G Studying at TU Delft has broadened my global vision and helped me greatly in my studies. The university has a complete engineering curriculum that I can find most of the courses I want to take. Life here is slow and comfortable. I really appreciate this opportunity JI's provided! **Zhou Shijie**

Fourth-year student in electrical and computer engineering

Some previously transferred courses

TU Delft		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
TI1706	Software Quality and Testingr	4	Flexible Tech. Elective	400	CS
TI1806	Computer Graphics	2	Flexible Tech. Elective	300	CS
TI2316	Automata, Languages and Computability	2	Flexible Tech. Elective	400	
TI2606	Concepts of Programming Languages	4	Flexible Tech. Elective	300	CS
TI2736-C	Data Mining	4	VE488		





The School of Engineering at San Sebastián, also known as TECNUN, is the Technological Campus of the University of Navarra. The School of Engineering offers numerous degrees in engineering at its two campuses in the city of Donostia-San Sebastián. JI students can not only attend the winter program organized by the university, but also can choose to come to the beautiful San Sebastian for a semester.



Term Dates Fall September – December Spring January – May

Sweden

Royal Institute of Technology

The Royal Institute of Technology in Stockholm (Kungliga Tekniska Högskolan, KTH) was founded in 1827 and today provides a significant part of Sweden's university-level higher education. It is regarded as one of the leading universities in science and technology internationally. More than 14,000 undergraduate and 1,700 postgraduate students study at KTH. Senior students can take a wide variety of English-language courses at the KTH. A wide selection of engineering, humanities, math and science courses is available.

Term Dates

FallAugust - JanuarySpringJanuary - early June

66 We went to KTH during the spring term for exchange, and the experience has benefited us a lot. We not only took interesting courses, but also travelled around and explored the nation with our new friends we met at KTH. Plunging into a totally different culture is so exciting and challenging! We will always miss KTH and fika! **Shao Yumeng**

Third-year student in electrical and computer engineering

Some previously transferred courses

КТН		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
AK2003/AK2011	Technology and Ethics	2	VG496		
DD1352	Algorithms, Data	4	VE281		
	Structures and				
	complexity				
DM2583	Big Data in Media Tech	1	Flexible Tech. Elective	400	CS
EL2320	Applied Estimation	2	Flexible Tech. Elective	300	ENGR
EP2120	Internetworking	3	Flexible Tech. Elective	400	ECE
EQ2310	Digital Communications	3	Flexible Tech. Elective	400	EE
IK2206	Internet Security and	2	Flexible Tech. Elective	400	ECE
	Privacy				
ME2054	Purchasing and Supply	3	Flexible Tech. Elective	300	
	Chain Management				
SD2111	Engineering Acoustics	3	Flexible Tech. Elective	400	ME
SF1610	Discrete Mathematics	4	VE203		
SF2568	Parallel Computations	2	Flexible Tech. Elective	400	CS&ECE
	for Large-Scale				
	Problems				



United Kingdom University of Warwick

The University of Warwick lies on the outskirts of Coventry in England. It was founded in 1965 and rapidly became one of Britain's leading universities and research institutions. It is not large, with a round 26,000 students, of which around 10,000 are post-graduate students. However, the engineering school has a very strong connection to industry, with many companies co-located on campus.

A good time for JI students to visit is the spring term, which runs from January to March, and features a full range of courses.



Term Dates Fall September – December Spring January - March

United States

University of Maryland

Founded in 1856, the University of Maryland is located in College Park, just outside of Washington DC. With over 37,000 students and 100 undergraduate majors, the University of Maryland has much to offer. The term dates are very favorable for JI students, since the spring term (January – May) features a full range of courses and ends before JI's summer term starts.



Term Dates

Fall September – December **Spring** January – May

Some previously transferred courses

Maryland		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
CMCS422	Introduction to	3	Flexible Tech. Elective	400	ECE
	Machine Learning				
ENAE420	Computational	3	VM305		
	Structural				
	Mechanics				
ENEE425	Digital Signal	3	Upper Level Tech.	400	
	Processing		Elective		
ENME392	Statistical Methods	4	VE401		
	for Product and				
	Process				
	Development				
ENME489N	Residential and	3	Flexible Tech. Elective	400	
	Industrial Energy				
	Audit				



46 Exchanging at NC State University is a precious opportunity for me to experience the unique American culture and college life. It's also interesting to see the similarities and differences of education in different countries, which prepares me better for studying abroad in the future.

Peng Chen

Third-year student in electrical and computer engineering



United States North Carolina State University

North Carolina State University (NCSU or NC State) traces its origins to 1887, where its precursor was founded as a land-grant college. With 34,000 students is the largest university in North or South Carolina. Historically, engineering has been one of its core strengths and its engineering program is highly regarded.

The term dates are very favorable for JI students, since the spring term (January – May) features a full range of courses and ends before JI's summer term starts.

Term Dates

Fall August – December Spring January – May

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NC State		UM-SJT	U Joint Institute		
Code	Title	Credits	Equivalency	Level	Field
BME422	Fundamentals of	3	Flexible Tech.	400	Biomedical
	Biomedical		Elective		Instrumentation
	Instrumentation				
CSC333	Automata,	3	Flexible Tech.	300	CS
	Grammars, and		Elective		
	Computability				
MA401	Applied	2	Advanced	400	MATH
	Differential		Mathematics		
	Equations II				
MA410	Theory of	3	Advanced	300	MATH
	Numbers		Mathematics		
MAE467	Introduction to	3	Flexible Tech.	400	ME
	Space Flight		Elective		
ST370	Probability and	3	Advanced	300	MATH
	Statistics for		Mathematics		
	Engineers				



World

Global Engineering Education Exchange (Global E³)

The Global E³ network is an exchange system created specifically for engineering students. More than 70 member institutions from all over the world currently participate in sending over 250 students to partner institutions each year.

Joint Institute students can choose from a wide variety of universities all over the world with very different term dates and availability of English courses.

Academic calendars are varied at different universities.

66 The one semester exchange at Case Western Reserve University is quite interesting and fulfilling. I not only get to experience the life in the US in advance, but also take courses which are not offered at Jl. Also it's very exciting to live with roommates from different countries. **Chen Peiyu**

Third-year student in electrical and computer engineering

⁶⁶ All in all, Global E³ provides a wonderful exchange experience for me in 2019 spring semester. I was warmly welcomed at the University of Wisconsin–Madison. The coordinators and advisors of Engineering Exchange Program were really helpful. Many thanks to this experience! Fan Zheliang

Third-year student in electrical and computer engineering

Case Weste	ern	UM-SJTU Joint Institute					
Code	Title	Credits	Equivalency	Level	Field		
EECS325N	Computer	3	Flexible Tech.	400	ECE		
	Networks I		Elective				
	Introduction to						
EECS338	Operating Systems	3	Flexible Tech.	300			
	and Concurrent		Elective				
	Programming						
EECS340N	Algorithm	3	Flexible Tech.	300	ECE		
			Elective				
EECS346	Engineering	3	Flexible Tech.	300	ECE/ME		
	Optimization		Elective				
EECS392	App Development	2	General Elective	200	ECE		
	For iOS						
Wisconsin-	Madison	UM-SJT	U Joint Institute				
Code	Title	Credits	Equivalency	Level	Field		
CS536	Intro to PLs and	3	Flexible Tech.	400	CS		
	Compilers		Elective				
CS539	Introduction to	3	Flexible Tech.	400			
	Artificial Neural		Elective				
	Network and Fuzzy						
	Systems						
CS567	Medical Image	3	Flexible Tech.	400			
	Analysis		Elective				
MATH632	Introduction to	3	Flexible Tech.	400	Mathematic		
	Stochastic		Elective				
	D						
	Processes						
ME364	Processes Elementary Heat	2	Flexible Tech.	300	ME		

Sample Study Plans Study Abroad in Year 3 - ME Major

	S	tudy Ab	oroad i	n Fall d	of Year	3	Stu	Study Abroad in Summer of Year 3				
	2/Spr	2/Sum	3/Fall	3/Sum	4/Fall	4/Sum	2/Spr	2/Sum	3/Fall	3/Sum	4/Fall	4/Sum
Vv214		4						4				
Ve215					4				4			
Vm240		4					4					
Vm250		4					4					
Vm320				3					3			
Vm335						3						3
Vm350				4				4				
Vm360				4				4				
Vm382	4								4			
Vm395				4					4			
Vm450					4						4	
Vm495						4						4
Math					3						3	
Vg496					2						2	
Flexible Elective			11							11		
General Elective		3	3			3		3		3		3
Intellect. Breadth		3			3	4		3	3			4

• In order to take Vm250 in the spring term of Year 2, Vm020 must have been taken in the preceding fall term.

- To spend a semester abroad in the Year 3, take either Vm382 or Vm240 and Vm250 in the spring term of Year 2.
- To go abroad in the Senior year, make sure that Vm495 is taken in the Junior year.

Sample Study Plans Study Abroad in Year 3 - ECE Major

	Study Abroad in Fall of Year 3					Stu	Study Abroad in Summer of Year 3					
	2/Spr	2/Sum	3/Fall	3/Sum	4/Fall	4/Sum	2/Spr	2/Sum	3/Fall	3/Sum	4/Fall	4/Sum
Ve216		4					4					
Ve230		4						4				
Ve270		4						4				
Ve280		4						4				
Ve300		1						1				
Ve311				4				4				
Ve320				4								4
Ve370					4				4			
Ve401				4			4					
Ve450					4						4	
Ve496					2						2	
Vg496					2						2	
Core Elective				4					4		4	
Upper lvl Elective					4	3					7	
Flexible Elective			7			5			2	7		3
General Elective			3			4			4	3		
Intellect. Breadth			4			6				4		6

• When going abroad in the summer of Year 3, taking Ve216 in the spring of year 2 is important since it is a prerequisite for many further courses.

DUAL DEGREE PROGRAM AT U-M

Earn a second Bachelor degree in an an engineering or related field at the University of Michigan! Students in this highly competitive program, select a second major at U-M which is different from the one they are pursuing at JI.

Participants will spend two years studying in Shanghai followed by two years in Ann Arbor and graduate with two Bachelor degrees, one from SJTU and one from U-M. The workload is high, but the field of apportunities is used.

opportunities is vast.

Application

Fall term of Year 2

Material

Personal statement, TOEFL and other documents.

Procedure

Common application - U-M eview applications - Results available -Prepare financial documents - Visa application - Study broad!

University of Michigan

Bachelor of Science Degrees in

- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Climate and Meteorology
- Computer Engineering
- Computer Science
- 💿 Data Science 📃
- Electrical Engineering

- Engineering Physics
 - Environmental Engineering
 - Industrial and Operations Engineering
 - Materials Science and Engineering
 - Mechanical Engineering
 - Naval Architecture and Marine Engineering
 - Nuclear Engineering and Radiological Sciences

- Space Science and Engineering
- Mathematics (LSA)
- Physics (LSA)

Gang ZHENG Associate Dean for Undergraduate Education UM-SJTU Joint Institute

Same Same

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66 JI's Global Degree Pathways program provides a perfect roadmap to your dream career. Whether it's environmental engineering, data science or even movie production, there is an exciting future just for you!

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GLOBAL DEGREE PATHWAYS

Get a head start on your dream career by joining the Global Degree Pathways program! Whether you are interested in environmental engineering, data science, business and management, naval architecture or classical engineering disciplines, these pathways provide a way to jump right into the corresponding Master degree programs at a leading international university.

The application period for the pathways is in or just after the fall term of the third year of study, and you travel abroad and start working in the Master program during the fourth year. Typically, you will return to JI in the summer term during the fourth year to finish the Bachelor degree, before going abroad again and completing the Master degree abroad by the end of the fifth year of your studies.



Study Plans

Depending on the pathway, students spend varying amounts of time at JI's Global Partner (GP) institution.

4+1 Pathway: Students may double-count credits from their undergraduate degree at JI towards their Master degree.

Year 1			Year 2			Year 3			Year 4			Year 5		
Fall	Spr.	Sum.												
JI								JI				GP		

4+1.5 Pathway: Students spend the spring term of their fourth year of studies abroad and do not miss any major term at JI.

Year 1			Year 2			Year 3			Year 4			Year 5		
Fall	Spr.	Sum.												
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3.5+2 Pathway: Students go abroad in the fall term of their senior year and study for two terms at the Global Partner.

Year 1			Year 2			Year 3			Year 4			Year 5		
Fall	Spr.	Sum.	Fall	Spr.	Sum.	Fall	Spr.	Sum.	Fall	Spr.	Sum.	Fall	Spr.	Sum
IL							JI	GP JI		GP				

University of Michigan

College of Engineering

4+1 Pathway in Integrated Systems & Design

- Master of Engineering in Systems
 Engineering and Design
- Master of Engineering in Energy Systems Engineering
- Master of Engineering in Automotive Engineering
- Master of Engineering in Manufacturing
- Master of Engineering in Global Automotive and Manufacturing Engineering

4+1 Pathway in Mechanical Engineering

 Master of Science in Mechanical Engineering (MSE)

4+1 Pathway in Electrical Engineering

 Master of Science in Electrical and Computer Engineering

4+1 Pathway in Naval Architecture

Master of Science in Engineering, Naval Architecture and Marine Engineering

Ross School of Business

A Special 4+1 Pathway in Management
Master of Management

The program starts in every June. To be eligible for the program, you will have to complete the SJTU graduation requirement by end of JI's Spring, 4th year. GPA 3.2 or higher GRE Waived TOEFL 84 or higher Application Fall of 4th Year

GPA3.6 or higherGREWaivedTOEFL100 or higher preferredApplicationFall of 4th Year

GPA3.6 or higherGREWaivedTOEFL84 or higher preferredApplicationFall of 4th Year

GPA 3.2 or higher GRE Waived TOEFL 84 or higher preferred Application Fall of 4th Yearr

GPAno specific requirementGRErequiredTOEFL84 or higher preferredApplicationFall of 4th Year

School of Information

3.5+2 Pathway in

- Master of Science in Data Analytics
- Master of Science in User Interface and Design

Department of Statistics, School of Literature, Science and the Arts

3.5+2 Pathway in

► Master of Science in Applied Statistics

GPA 3.0 minimum, 3.5 or higher preferred GRE Waived TOEFL 100 minimum, 102 or higher preferred Application Fall of 3rd Year

GPA 3.0 minimum, 3.5 or higher preferred GRE Waived TOEFL 84 or higher Application Fall of 3rd Year

School of Environment and Sustainability

3.5+2 Pathway in

 Master of Science in Natural Resources and Environment GPA 3.0 minimum, 3.5 or higher preferred GRE Waived TOEFL 100 minimum, 102 or higher preferred Application Fall of 3rd Year



Ireland Trinity College Dublin

College of Engineering

3.5+2 Pathway Master of the

Engineering Arts in

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Electrical & Computer Engineering

GPA 3.3 or higher GRE Waived TOEFL 90 or higher Application Fall of 3rd Year



Sweden

Royal Institute of Technology

3.5+2 Pathway

Degrees earned

Students obtaining a Bachelor's degree in Mechanical Engineering at JI may choose from one of the following majors at KTH:

- Engineering Design
- Engineering Mechanics
- Naval Architecture
- Vehicle Engineering

Students obtaining a Bachelor's degree in Electrical and Computer Engineering at JI may choose from one of the following majors at KTH:

- Machine Learning
- Media Management
- Electrophysics
- Electric Power Engineering
- Network Services and Systems
- Systems, Control and Robotics
- Wireless Systems
- Embedded Systems
- Communication Systems
- Medical Engineering

GPA No specific requirement GRE Waived TOEFL 90 or higher preferred Application Fall of 3rd Year



United States

University of California at Irvine

3.5+2 Pathway Master of Science in

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Electrical & Computer Engineering

GPA 3.2 or higher GRE Waived TOEFL 80 or higher Application Fall of 3rd Year

United States

North Carolina State University

4+1.5 Pathway Master of Science in

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering

GPA3.0 or higherGREWaivedTOEFL80 or higherApplicationSummer of 3rd Year





United States University of Southern California

3.5+2 Pathway Master of Science at the USC Viterbi School of Engineering

GPA3.2 or higher preferredGREWaivedTOEFL90 or higherApplicationFall of 3rd Year

CREDIT TRANSFER

If you have studied abroad and taken courses at another institution, you can have the credits transferred to JI. Depending on the course, these credits may count towards the Flexible Technical Elective, Intellectual Breadth or other categories in your program requirements.

Credit Transfer Process

- The process can be initiated at http://bpm.umji.sjtu.edu.cn/. Courses that have previously been transferred are listed in the Course Equivalency Database at www.umji.sjtu.edu.cn/equivalence/index . If your course is not found in the database, or the equivalency is about to expire or has already expired, you need to initiate a course evaluation, which is described below.
- If the course is listed in the Equivalency Database and you accept the proposed equivalency, then you just need to upload an electronic copy of your transcript. Furthermore, two original copies must be submitted to the International Programs Office. JI and SJTU will each hold one original transcript in archive.
- The credits transferred from Non-SJTU courses will be counted towards the graduation requirements of JI. However, they will not be taken into account for the SJTU GPA. Such transferred courses will appear neither on SJTU transcripts nor in the degree audit check system at http://degree.ji.sjtu.edu.cn/.

Guidelines for the evaluation of a course not yet in the Equivalency Database.

Required Documents for the Course Evaluation

Your application may be refused if you do not provide full and complete the documentation. Some documents may be requested at a later date.

- Required document: Course syllabus
- Additional document: Course schedule or timetable as proof of contact hours if the course syllabus does not list the actual number of contact hours. You may also be required to provide slides, assignments, project, presentations, notes, or other material necessary for the evaluation.

Determination of Contact Hours, Credits and Course Level

The transfer process will include a determination of the contact hours, the associated course credits and the level of the course recognized by JI.

Contact Hours

For the purpose of calculating contact hours, JI will only take Lectures and Laboratory classes into account. Exercise classes, if they are a fixed part of the course and participation in them is expected, may also be counted. Supporting evidence for the hours of Exercise, Recitation, and Tutorial Classes etc. should be provided if you want these hours to count. An email from the instructor or from the office of the host university or college of the course may be acceptable as evidence. Further information is available from ipo_exchange@163.com. Unless corresponding evidence is provided in your initial request, it is assumed that you agree with the credit calculation being based only on Lecture and Laboratory hours.

Credits

The number of credits recognized by JI is based on the contact hours and may be different from that awarded by the host university.

Course Level

All courses transferred towards JI graduation will be evaluated at no higher than 400 level.

Appeal

Feedback and results will be released via email. Please check your emails (including your junk mail folder) regularly. If you want to change your email registered in JI system, please contact the IT office (ji-it@stju.edu.cn) before starting the transfer process. You may appeal the decision within 72 hours of receiving the results of the transfer process if one or more of the following statements are true:

- Your credit transfer was refused.
- > You believe your course may be transferred to a higher level.
- > You believe your course should count for more credits.

Transcripts and Courses graded as Pass/Fail

Transcripts should be provided that show the course grade as a letter grade. To gain the course credit, you must have received a passing grade at the host university. Courses graded simply as Pass/Fail are not transferable.

Correctness of Documents

All documents and any information you provide in the transfer process should be correct and unmodified. Any suspected manipulations will be referred to the Honor Council and the Undergraduate Committee.

GLOBAL DAY 2019