

Downtown Shanghai  
(view from 492 m)





壹片



# JOINT INSTITUTE

# 交大密西根学院

U M - S J T U



# East Meets West in Engineering Education

- Curriculum integrated with that of UM
- Courses taught in English
- Diversity in education focuses
- World-class faculty
- International education environment

# World-class Faculty

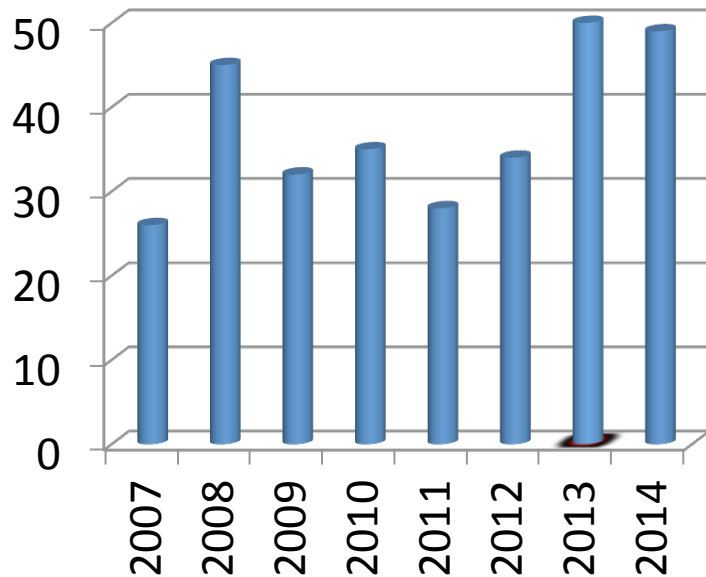


Carnegie Mellon  
Michigan  
UC Berkeley  
RWTH Aachen  
Utah  
Maryland  
Toronto  
Columbia  
Georgia Tech  
Stanford  
TU Chemnitz  
Drexel  
USC  
Tokyo  
Caltech  
Minnesota  
Yale  
Harvard  
Purdue  
Potsdam  
Wroclaw  
Auckland  
Waterloo  
Boston  
Arkansas





# Successful Summer Program since 2007







# Program Calendar and Costs

More details are available at  
[umji.sjtu.edu.cn/current-students/study-at-the-ji/](http://umji.sjtu.edu.cn/current-students/study-at-the-ji/)

- AUTUMN semester      SEPT–DEC
- SUMMER semester      MAY–AUG
- Tuition      2500 RMB
- Program fee
- AUTUMN semester      1000 RMB
- SUMMER semester      4000 RMB
- On-campus housing
- DOUBLE occupancy      2500 RMB
- Meals + personal expenses
- ~10000 RMB

Yellow Mountain (6 hr by bus)



# Study at the JI

## Electrical & Computer Engineering

- Ve 215 Intro to Circuits
- Ve 216 Intro to Signals and Systems
- Ve 230 Electromagnetics
- Ve 270 Intro to Logic Design
- Ve 280 Programming & Data Structures
- Ve 311 Electronic Circuits
- Ve 320 Intro to Semiconductor Devices
- Ve 401 Probabilistic Methods
- ...

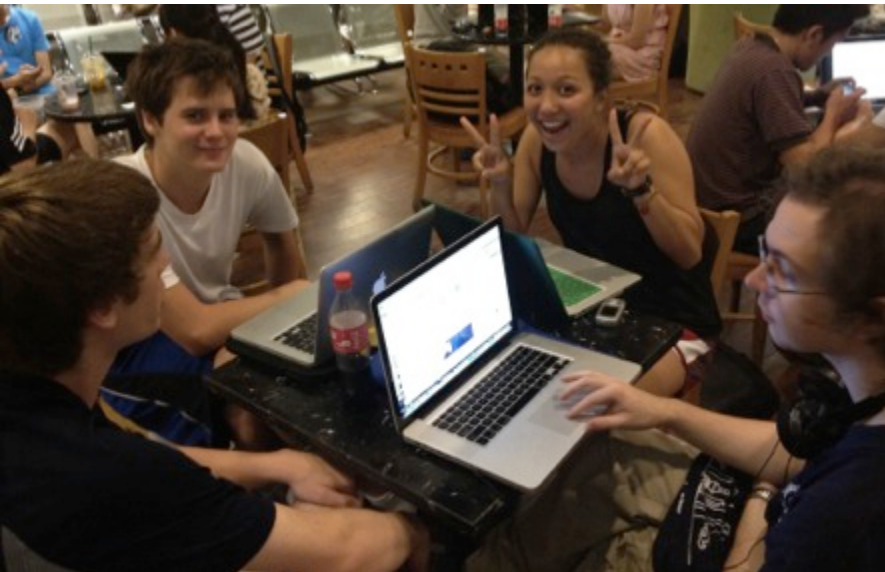
## Mechanical Engineering

- Vm 235 Thermodynamics
- Vm 240 Intro to Dynamics & Vibrations
- Vm 250 Design & Manufacturing
- Vm 360 Modeling, Analysis & Control of Dynamic Systems
- ...

## Humanities & Social Sciences

### Chinese Language & Culture

- Vr 363 Chinese Cinema
- Vr 204 Modern Asia: Colonialism, Anti-colonialism and State Formation
- ...





# Living on Campus

Double occupancy rooms

4 rooms in a suite

Bathroom and shower for each suite

2 living areas on each floor

Laundry on the ground floor







# SJTU Minhang Campus

Single largest campus in China  
Numerous sports facilities and libraries  
available to students  
New swimming pool and fitness center

To downtown People's Square:  
60 minutes by subway

To downtown Xu Jia Hui:  
45 minutes by campus shuttle bus





# Eating on Campus

6 canteens offering lots of dining choices

Restaurants on and off campus;  
Hualian Living Center

Ordering from ele.me is popular and convenient!





# Cultural Enrichment

Airport pick-up and orientation

Chinese Buddy Program

Excursions, weekend trips and field trips

Parties (BBQ, July 4<sup>th</sup>, etc.)

Amazing race





# UM-SJTU JI International Programs Office



**Viva Du**  
Program Coordinator  
[viva.du@sjtu.edu.cn](mailto:viva.du@sjtu.edu.cn)

**Kwee-Yan Teh**  
Faculty Advisor  
[tehk@sjtu.edu.cn](mailto:tehk@sjtu.edu.cn)





UNIVERSITY OF  
MICHIGAN



**WELCOME TO SHANGHAI**



## Appendix 2: Recommended lectures at JI in English language

List may be updated every semester.

Courses offered in the Fall Term:

Course Code	Title	Credits	ECTS for FAU
VV155	Applied Calculus I	4	8
VV156	Applied Calculus II	4	8
VV186	Honors Mathematics II	4	8
VG100	Intro. to Engineering	4	8
VG101	Intro. to Computer and Programming	4	8
VP240	Physics II	4	8
VP260	Honor Physics II	4	8
VP141	Physics Lab I	1	2
VP241	Physics Lab II	1	2
VV256	Applied Calculus IV	4	8
VV286	Honors Mathematics IV	4	8
VM211	Intro to Solid Mechanics	4	8
VE203	Discrete Mathematics	4	8
VE215	Introduction to Circuits	4	8
VE370	Intro to Computer Organization	4	8
VE281	Data Structures and Algorithms	4	8
VE334	Principles of Optics	4	8
VE451	Digital Signal Processing	4	8
VE460	Control Systems Analysis and Design (meet with Vm461)	3	6
VM320	Fluid Mechanics	3	6
VM382	Mechanical Behavior of Materials	4	8



VM311	Strength of Materials	3	6
VM433	Advanced Energy Solutions	3	6
VG496	Professional Ethics	2	4
VE496	Advanced Technical Communication	2	4
VE482	Introduction to Operating Systems	4	8
VE455	Digital Communication Signals & Systems	4	8
VE420	Physical Principles Underlying Smart Devices	4	8
VE501	Probability and Random Processes	4	8
VE504	Solid State Physics	3	6
VE689	Wireless Network	3	6
VM458	Automotive Engineering	3	6
VM432	Combustion	3	6
VM461	Automatic Control (meet with Ve460)	3	6
VM484	Engineering Project Management	3	6
VM523	Computational Fluid Dynamics	3	6
VE504	Solid State Physics	3	6
VR160	Introduction to World Politics	4	8
VR140	Comparative Government and Politics	4	8
VR240	Nations & Empires since 1750	3	6
VR261	The Emergence of Modern America, 1865 to the Present	3	6
VR202	Introduction to Philosophy	3	6
VZ001	Chinese I	4	8
VR363	Chinese Society in Contemporary Chinese Cinema	3	6
VX421	Leadership and Technology Management	3	6
VV556	Methods of Applied Math I	4	8
VX401	Entrepreneurship	1	2
Vv556	Methods of Applied Mathematics I	3	6
Ve530	Electricity and Magnetism	3	6

Ve534	Optics and Photonics	3	6
Ve540	Applied Quantum Mechanics I	3	6
Ve501	Probability and Random Processes	3	6
Ve560/Vm564	Linear Systems	3	6
Vm524	Turbulence	3	6
Vm555	Design Optimization	3	6
Ve689	Wireless Network	3	6

Courses offered in the Summer Term:

Course Code	Title	Credits	ECTS for FAU
VV255	Applied Calculus III	4	8
VV285	Honors Mathematics III	4	8
VP140	Physics I	4	8
VP160	Honors Physics I	4	8
VG100	Intro to Engineering	4	8
VG101	Intro to Computers & Programming	4	8
VE216	Intro to Signals and Systems	4	8
VE270	Introduction to Logic Design	4	8
VE230	Electromagnetics I	4	8
VE280	Programming & Elem. Data Structures	4	8
VE300	Technical Communication	1	2
VV214	Linear Algebra	4	8
VM235	Thermodynamics	3	6
VM240	Intro to Dynamics and Vibrations	4	8
VM250	Design and Manufacturing I	4	8
VE320	Intro to Semiconductor Devices	4	8
VE401	Probabilistic Methods in Eng.	4	8
VE330	Electromagnetics II	4	8



VE311	Electronic Circuits	4	8
VE434	Principles of Photonics	4	8
VE438	Advanced Lasers and Optics Laboratory	4	8
VE373	Design of Microprocessor Based Systems	4	8
VM335	Heat Transfer	3	6
VM350	Design and Manufacturing II	4	8
VM360	Modeling, Analysis and Control of Dynamic Systems	4	8
VG496	Professional Ethics	2	4
VE496	Advanced Technical Communication	2	4
VE312	Digital Integration Circuits	4	8
VE475	Introduction to Cryptography	4	8
VE489	Computer Networks	4	8
VM552	Mechatronic Systems Design	3	6
VM440	Intermediate Dynamics and Vibrations	4	8
VM552	Mechatronic Systems Design	3	6
VM481	Manufacturing Processes	3	6
VM421	Thermal-Fluids Systems Design	3	6
VM412	Advanced Strength of Materials	3	6
VR369	Politics of International Economic Relations	3	6
VR380	Topics in Asian Studies: Political and Economic Development in Pacific Asia	3	6
VR204	Modern Asia: colonialism, anti-colonialism and state formation	4	8
VZ003	Chinese III	4	8
VZ102	Introduction to Chinese Culture	2	4
VZ104	Introduction to Chinese Language	2	4
VY223	Creative Writing	3	6
VR361	Philosophical Ethics	4	8
VR241	Comparative Literature: Fairy Tales	3	6

VR320	American Short Fiction	4	8
VX420	Business Basics for Entrepreneurs	3	6
VP390	Modern Physics	3	6
Vv557	Methods of Applied Mathematics II	3	6
Ve507	Semiconductor Optoelectronics	3	6
Ve508	Nonlinear and Ultrafast optics	3	6
Ve535	Optical Information Processing	3	6
Vm505	Finite Element Methods	3	6
Vm552	Mechatronic Systems	3	6
Ve509	Semiconductor Physics	3	6
Vm583	Manufacturing Processes and Systems	3	6
Ve538	Optical Waves in Crystals	3	6

Ve5xx, Vm5xx, Vv5xx courses are recommended for graduate students.

2) Lecture periods (please refer <http://umji.sjtu.edu.cn/academics/academic-calendar/>):

Term	Start - End
Fall Term 2014/15	2014-09-15 - 2014-12-19
Summer Term 2015	2015-05-11 - 2015-08-07
Fall Term 2015/16	2015-09-14 - 2015-12-18