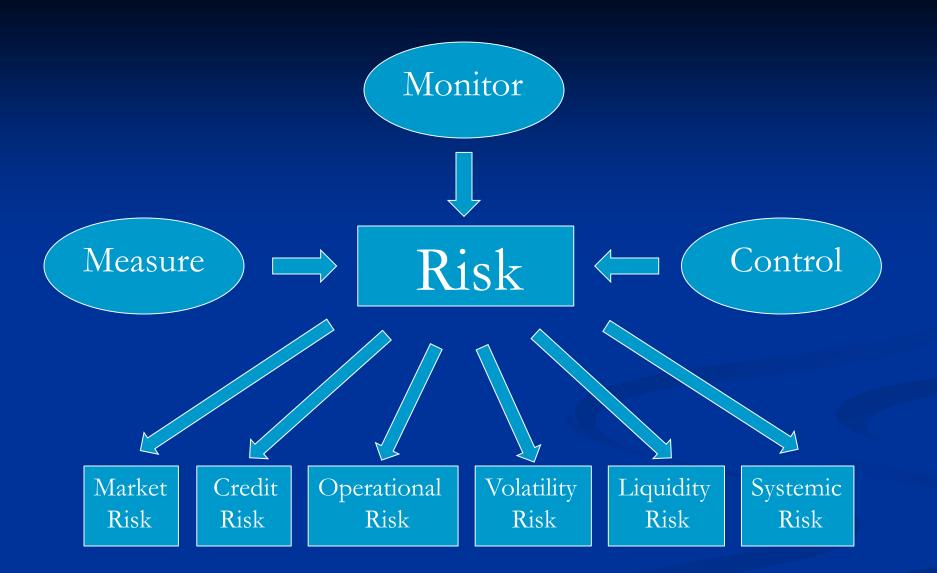
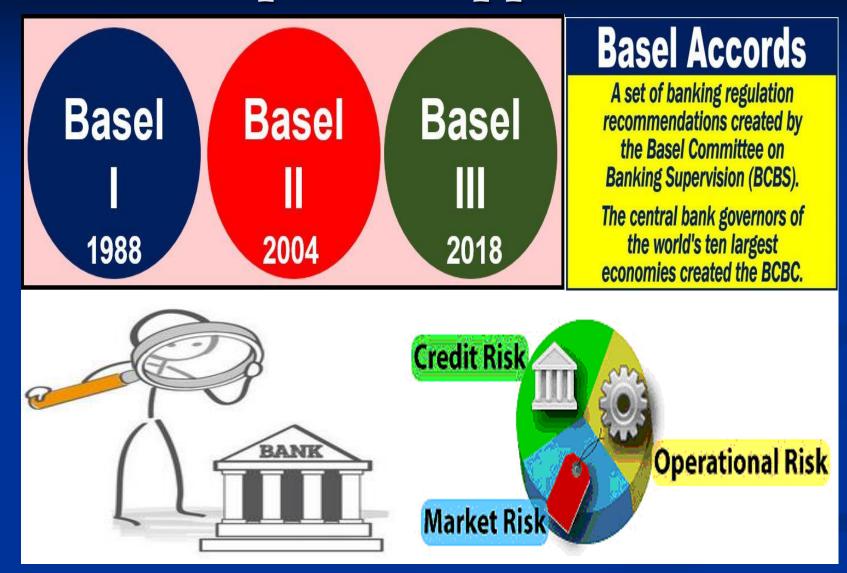
Bachelor of Science

(4-year Curriculum)

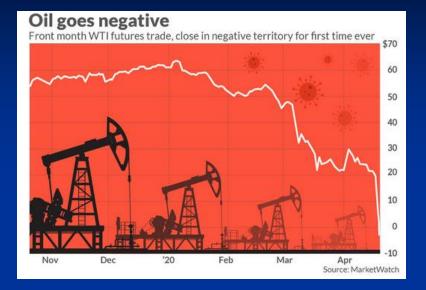
Major in Risk Management Minor in Actuarial Studies



Life is full of risks, and the risks are costly!

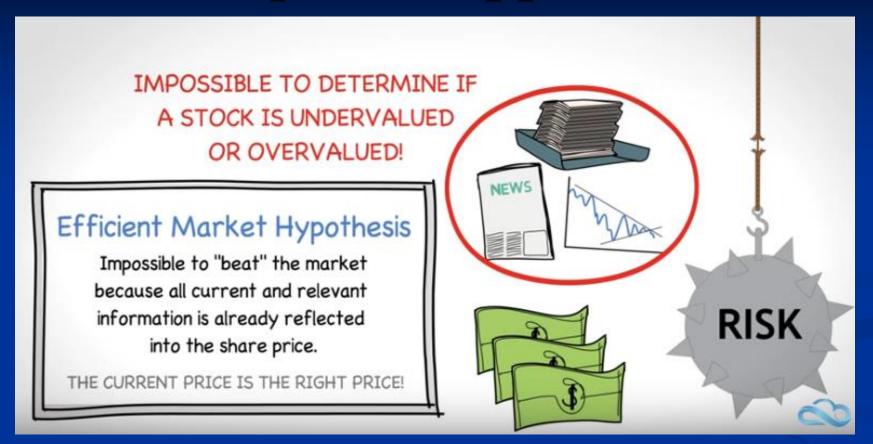


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		400	85	9,288	11.98	2.06	0.46	10.00	17.95	14.79	17.88	126	10		
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13 +2.	36	16,500	214	4,653		1.27		0.20	0				3.31		
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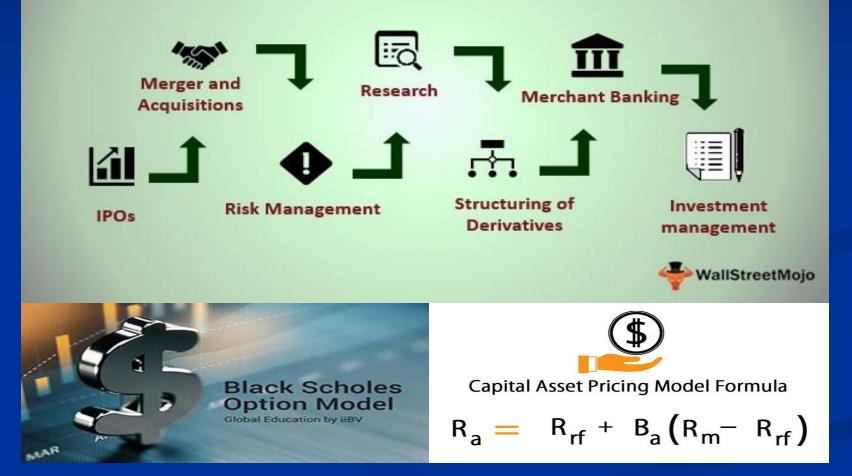
• A day trader who bought hundreds of oil futures contracts during its historic price crash last month was told he owed \$9 million after a technology issue prevented his trading platform from displaying negative oil prices, Bloomberg reported on Friday.



Q: Can the stock price be predicted?

A: It is predicted only when the market is not efficient. ----- by E. Fama (Nobel Laureate in Economics 2013)

Investment Banking Functions



Q: What happened if the stock market fused four times in a single month?

Crazy but true!

A: Stress testing by using scenario analysis.



What do we need from your Mathematics?

- Set notation and theory
- Functions (*incl.* limits, continuity)
- Sequences, series
- Basic calculus (*incl.* partial differentiation, double integration)
- Vectors, matrices (basic operations)

 Mathematical background adequate?
 Students must have level 2 or above in HKDSE Extended Module 1 or 2 of Mathematics
 or equivalent

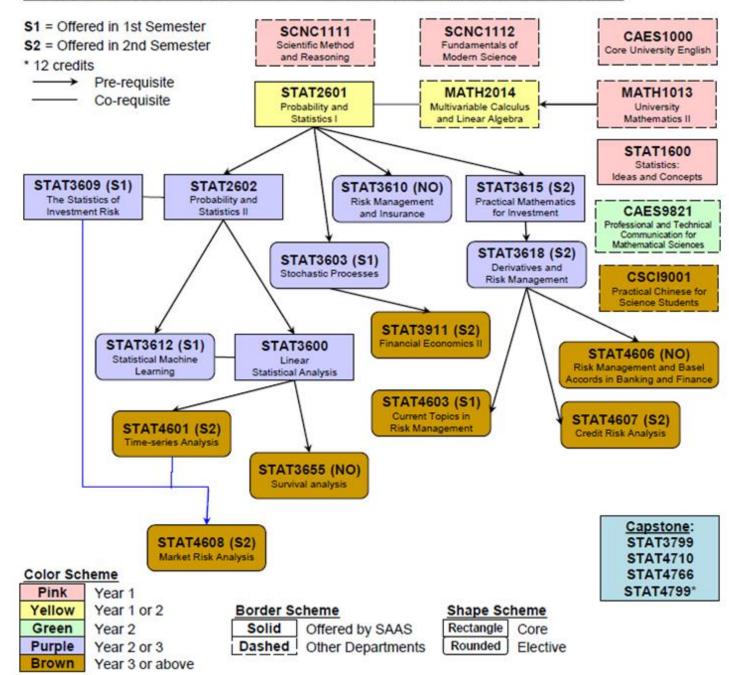
Otherwise, strongly advised to take
MATH1011 University Mathematics I

in Semester 1.

Suggested / Example Structure of BSc (Major in Risk Management) Curriculum

Year	0	ne	Two				
Semester	One	Two	One	Two			
Disciplinary Core	MATH1013 University Mathematics II STAT1600 Statistics: Ideas and Concepts	MATH2014 Multivariable Calculus and Linear Algebra	STAT2601 Probability and Statistics I	STAT2602 Probability and Statistics II STAT3615 Practical Mathematics for Investment			
Science Foundation Courses	SCNC1111 Scientific Method and Reasoning	SCNC1112 Fundamentals of Modern Science					
Common Core	Six common core courses within the first three years						
Language	CAE Core Univer (offered in bo	S1000 rsity English oth semesters)	CAES9821 Professional and Technical Communication for Mathematical Sciences (offered in both semesters)				

Flow Chart of Disciplinary Courses for BSc Major in Risk Management



Major in Risk Management vs Major in Statistics

- All 7 introductory level courses **SAME**
- Advanced level core courses:

<u>1 SAME,</u> <u>3 DIFFERENT</u>

Risk Management –

courses focus primarily on business-related topics: e.g.

investment, insurance, finance, banking, etc.

Statistics –

courses cover wide range of topics with emphasis on *"METHODS", their applications,* and *underlying theory.*"

- Students <u>CANNOT</u> double major or major/minor in Risk Management & Statistics
- For detailed curriculum structure, please refer to

https://webapp.science.hku.hk/sr4/servlet/enquiry?frmid=MenuP

Reminder

plan ahead

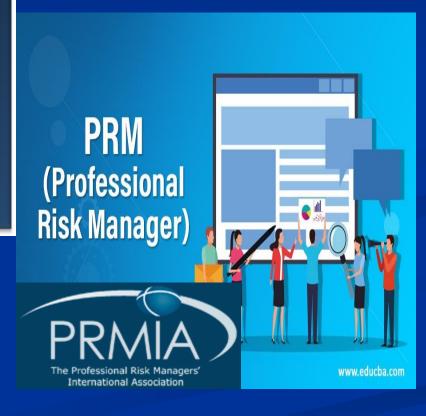
- watch out for pre-requisites of individual courses
- courses <u>CANNOT</u> be double-counted to fulfill different majors/minors
- (exception for double major in Science:
- SCNC1111 & SCNC1112 & up to 12 credits of compulsory courses

REQUIRED by both Science majors can be double-counted)

consult course selection advisors if necessary

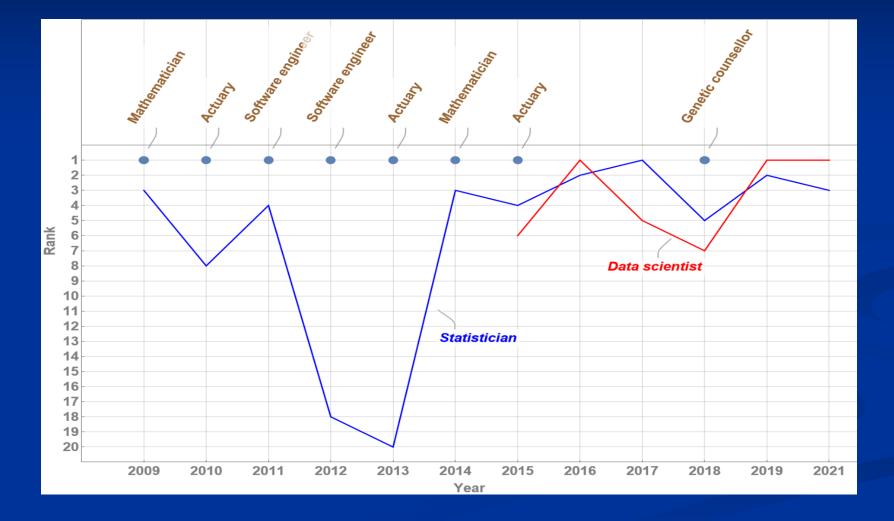
FRM Exam (Financial Risk Management Certification)







https://www.careercast.com/jobs-rated/best-jobs-2021



Support from University and Department

HKU : Centre of Development and Resources for Students
 NETmatch, NETjobs, JIJIS (Joint Institutions Job Info. System)

Department : Internship / Job Online Application System



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UID :	2008000001		Maj	or :	Statistics				
Name :	Ugrad Test_Student1		E-m	nall :	@hku hk				
Last Status :	Available working period. Fi	rom: 2019-04-10 To: 2019-11-30	Cor	ntact Phone:	+852 12345678				
CAP Profile: (Cover letter & CV)		Uplmad Profile	PP	P Score Letter & CV Submitted 0.0 Moc Case Analysis & Presentation 0.0			0.0	4	
Current Job List Application History Past Internship Jobs									
Records shown 1 -	Records shown 1 - 16 of 16								
Jobtyne	Company Name Job Title / Job Description / Form date Action								
Full-time_ST&AS	EFA Portfolio Investment Analyst(ASAP) (GRAD/Internship) IR 1452			Submit completed application via email at careers@efadrin.com					
Internship_AS&ST	AlA Group Actuarial Internship Prostamme (Jan-Jun 2020) AW 1525			Submit completed application via email at Rachel-vh chan@aia.com					
Internship_AS&ST	Blue, trade name of Aviva Life Insurance Co Ltd	Actuarial Intern (Jan-Jun 2020) MY 1529	2019- 08-31	Submit completed application via email at careers@blue.com.hk					
Full-time_AS&ST	CIGNA	Contract Associate Valuation (IFRS) (ASAP) JC 1629	2019- 08-25	Submit completed application via email at <u>sandy.lau@cipta.com</u>					
Full-time_AS&ST	Full-time_AS&ST YF Life insurance International Ltd Actuarial Analyst (GRAD)/ASAP) VL 1643 2019- 08-18 Submit completed application via email at recruit@vfiife.com								

Career Development Training

Summer IT course:

Essential IT skills (certificate course)

Career Advising Programme (CAP) to prepare students for:

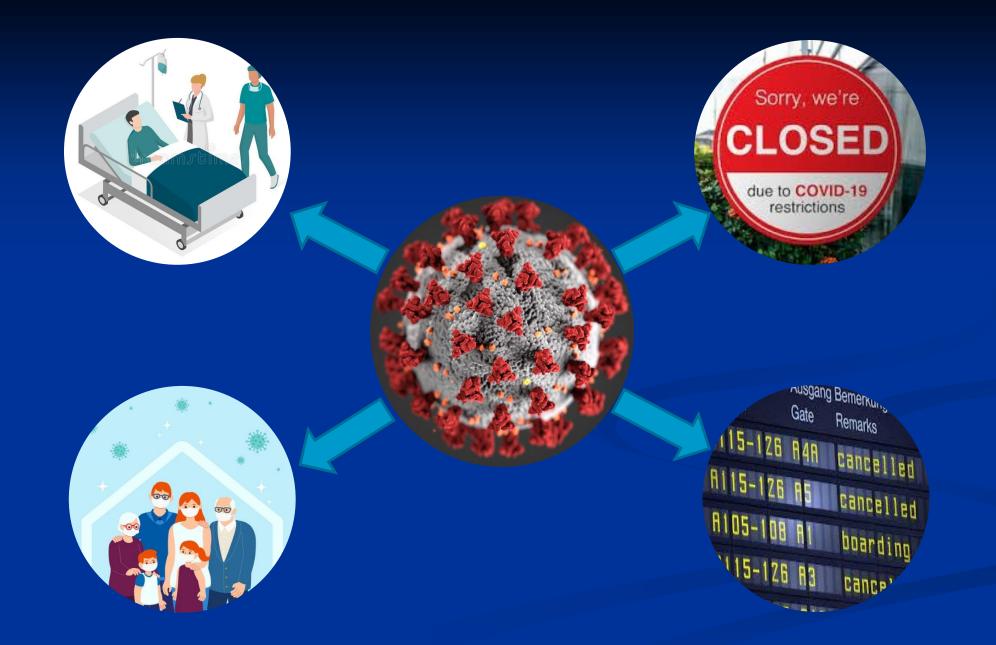
- internships and job opportunities
- advancing resume and interview skills

Microsoft



Minor in Actuarial Studies

Disciplinary E	lective		
Introductory		Advanced	
MATH1013	FINA1310	STAT3612	STAT3615
STAT2601	STAT2602	STAT3901	STAT3904
STAT2604		STAT3906	STAT3908
		STAT3910	STAT3911
		STAT3953	STAT4903



Contact Persons

Co-ordinator & Course Selection Adviser

■ Dr. K.P. WAT

Credit Transfer

■ Dr. Chen WANG

Tel: 3917 2466

Email: ug_enquiry@saas.hku.hk