Memorandum

Date: 11.17.2021

To: Undergraduate Studies Committee

From: Department of Information Technology and Management

Subj: PROPOSED DUAL-DEGREE PROGRAM: BACHELOR OF INFORMATION TECHNOLOGY AND MANAGEMENT /
BACHELOR OF SCIENCE IN COMMUNICATION: IOURNALISM OF TECHNOLOGY & BUSINESS CURRICULUM

Attached is a proposal for an integrated dual degree program leading to the Bachelor of Information Technology and Management (ITM) and the Bachelor of Science in Communication: Journalism of Technology and Business (JTB) Curriculum while maintaining the integrity and program content of each individual degree program.

15 credit hours of ITM courses apply to the Bachelor of Science in Communication (JTB) Technology and Business Requirement with this 15 credit hours applied to both degrees. ITM 100 meets the Core Curriculum Introduction to the Profession requirement for both degrees. ITM 311 fulfills the Core Curriculum Computer Science requirement. The required Minor in each degree is replaced by the second degree.

This proposal has been approved by the Curriculum Committee and the Faculty of the Department of Information Technology and Management and the Department of Humanities.

BACHELOR OF INFORMATION TECHNOLOGY AND MANAGEMENT/BACHELOR OF SCIENCE IN COMMUNICATION: JOURNALISM OF TECHNOLOGY AND BUSINESS

This program provides an integrated dual degree program leading to the Bachelor of Information Technology and Management (ITM) and the Bachelor of Science in Communication: Journalism of Technology and Business Curriculum while maintaining the integrity and program content of each individual degree program.

Students earning the communication degree specialize in one of four areas: general communication, journalism of science (JS), journalism of technology and business (JTB), or professional and technical communication (PTC). All COM majors take coursework in editing, persuasion, communication law and ethics, and science and technology in society. Journalism specialists add courses in journalism, mass media, and intercultural communication, and JTB specialists also take courses in economics, business, information technology, writing about technology, and history of technology.

A maximum of nine credit hours of ITM graduate courses taken as an undergraduate may be applied to the Master of Information Technology and Management degree, and any graduate courses taken to fulfill undergraduate degree requirements may not also be applied to a graduate degree unless the student is enrolled in a co-terminal or accelerated master's degree program.

Required Courses

Code	Title	Credit Hours		
ITM Requirem	ents	(39)		
ITM 100	Intro to IT as a Profession	3		
ITM 301	Intro OS and Hardware I	3		
ITM 311	Intro to Software Development	3		
ITM 313 or ITM 312	Intro to Open Source App Dev Intro Systems Sftwr Prgmng	3		
ITMD 321	Data Modeling and Applications	3		
ITMD 361	Fund of Web Development	3		
ITMD 362	Human-Computer Interaction	3		
ITMD 411	Intermediate Software Devlpmnt	3		
ITMM 471	Project Management for ITM	3		
ITMO 340	Intro Data Netwo <mark>rks & Inter</mark> net	3		
ITMO 356	Intro Open Source OS	3		
ITMS 448	Cyber Security Technologies	3		
ITMT 430	System Integration	3		
ITM Electives	(General or Specialization)	(18)		
	it hours from INTM, ITM, ITMD, ITMM, TMT, and TECH	18		
Natural Science	e and Engineering Requirements	(11)		
EG 225 is reco	mmended			
See Illinois Ted	ch Core Curriculum, section D	11		
Humanities an	d Social Sciences Requirements	(21)		
See Illinois Ted	ch Cor <mark>e Curriculum</mark> , s <mark>ections</mark> B and C	21		
Interprofessio	nal Projects (IPRO)	(6)		
See Illinois Ted	6			
Free electives				
Select 4 credit	Select 4 credit hours 4			

Code	Title	Credit Hours
Mathematics F	Requirements	(7)
MATH 180 or MATH 230	Fundamentals of Discrete Math Introduction to Discrete Math	3
PSYC 203	Undergrad Stats Bhvrl Sci	4
Communication	n Requirements	(9)
COM 371	Persuasion	3
COM 377	Communication Law Ethics	4
COM 425	Editing	3
Portfolio		
Journalism Re	quirements	(12)
COM 372	Mass Media Society	3
COM 421	Technical Communication	3
COM 435	Intercultural Communication	3
COM 440	Introduction to Journalism	3
Technology an	d Business Requirement 1	(9)
BUS 210	Accounting for Non-Business Majors	3
BUS 301 or BUS 371	Organizational Behavior Marketing Fundamentals	3
ECON 211	Principles of Economics	3
ITM 301, ITM 3	311, ITM 321, ITM 361, ITMO 340 ¹	0
Science and To Select 6 credit	echnology in Society (STS) Elective hours from:	(6) 6
HIST 375	History of Computing	3
HIST 382	Technology in Hist 1500-1850	3
HIST 383	Tech History 1850 Present	3
Total Credit Ho	ours	142

^{1 15} credit hours of ITM courses apply to the Technology and Business Requirement for an actual total of 24, with 15 credit hours applied to both degrees

Bachelor of Information Technology and Management/Bachelor of Science in Communication: Journalism of Technology and Business Curriculum

Semester 1	Credit Hours	Semester 2	Year 1 Credit Hours
ITM 301	3	ITM 311	3
ITM 313 or 312	3	ITMD 362	3
ITMD 361	3	COM 372	3
Natural Science or Engineering Elective	4	MATH 180 or 230	3
Humanities 200-level Elective	3	Social Sciences Elective	3
	16		15
Semester 1	Credit Hours	Semester 2	Year 2 Credit Hours
ITM 100	3	ITMO 340	3
ITMD 411	3	COM 371	3
COM 377	3	COM 421	3
PSYC 203	4	COM 435	3
Natural Science or Engineering Elective	3	Natural Science or Engineering Elective	4
	16		16
Semester 1	Credit Hours	Semester 2	Year 3 Credit Hours
ITMD 321	3	ITM Elective	3
ITMM 471	3	COM 440	3
ITMO 356	3	BUS 210	3
STS Elective ¹	3	Humanities Elective (300+)	3
ECON 211	3	Social Sciences Elective (300+)	3
	15		15
Semester 1	Credit Hours	Semester 2	Year 4 Credit Hours
ITMS 448	3	ITMT 430	3

Semester 1	Credit Hours	Semester 2	Year 4 Credit Hours
ITMS 448	3	ITMT 430	3
ITM Elective	3	ITM Elective	3
ITM Elective	3	STS Elective ¹	3
COM 425	3	Social Sciences Elective (300+)	3
BUS 301 or 371	3	Free elective	4
IPRO Elective I	3		
	18		16

Semester 1	Year 5 Credit Hours
ITM Elective	3
ITM Elective	3
IPRO Elective II	3
Humanities Elective (300+)	3
Humanities or Social Sciences Elective	3
	15

Total Credit Hours: 142

Select from: HIST 375, HIST 382, or HIST 383.

Information Technology and Management Curriculum Specializations

The ITM electives may be chosen from one or more of the following course specializations. ITM required courses may not be counted toward completion of elective requirements for specializations.

With the permission of the adviser, other undergraduate or graduate courses in the same area may be substituted for courses in a specialization.

Data Management

Focuses on the design, development, and administration of traditional and Internet-based data management.

Code	Title	Credit Hours
ITMD 422	Advanced Database Mgmt	3
ITMS 428	Database Security	3
Select two courses	s from the following:	6
ITM0 444	Cloud Computing Technologies	3
or any ITMD el		
Total Credit Hours	12	

IT Entrepreneurship and Management

Focuses on the managerial and entrepreneurial skills needed to launch a new enterprise.

Code	Title	Credit Hours
ITMM 470	Fund of Mgmt for Tech Prof	3
ITMM 481	IT Entrepreneurship	3
ITMM 482	Business Innovation	3
Select one course		
any BUS elect	ives at the 200-level or above	3
or any INTM e approval	3	
Total Credit Hours		12

Networking and Communications

Focuses on network applications and management.

Code	Title			Credit H	ours
ITMO 441	Network Admin 8	& Operation	ons		3
ITMO 446	Telecomm Over	Data Netv	works		3
Select one course	from the following	:			3
ITMO 433	Enterprise Server	Admin		3	
ITMO 453	Open Source Ser	ver Admi	n	3	
Select one course	from ITMO, ITMT,	or the fol	lowing:		3
ITMD 465	Rich Internet App	lications		3	
ITMS 443	Vulnerability Ana	lys and C	trl	3	
ITMS 478	Cyber Security M	anageme	ent	3	
Total Credit Hours					12

Software Development

Focuses on programming and the development of sophisticated applications.

Code	Title	Credit Ho	urs
ITMD 415	Advanced Software Development		3
ITMD 462	Web Site App Development		3
Select two courses	s from the following:		6
ITMD 412	Adv Structured & Systems Prg	3	
ITMD 413	Open-Source Programming	3	
ITMD 419	Topics in Software Development	3	
ITMD 453	Enterprise Intelligent Device	3	
ITMD 454	Mass-Market Intelligent Device	3	
ITMD 455	Open-Source Intelligent Device	3	
or any ITMD ele	ective	3	
Total Credit Hours			12

System Administration

Focuses on the administration and the management of servers.

Code	Title	Credit	Hours
ITMO 441	Network Admin & Operations		3
Select two courses	from the following		6
ITMO 433	Enterprise Server Admin	3	
ITMO 450	Enterprise End-User Sys Admin	3	
ITMO 453	Open Source Server Admin	3	
Select one course t	from the following:		3
ITMO 417	Shell Scripting for Sys Admin	3	
ITMO 444	Cloud Computing Technologies	3	
ITMO 454	Operating Sys Virtualization	3	
ITMS 458	Operating System Security	3	
Total Credit Hours			12

Systems Security

Focuses on application, data, and network security and the management of information technology security.

Code	Title	Credit Ho	urs
ITMS 478	Cybersecurity Management		3
Select one course	from the following:		3
ITMO 433	Enterprise Server Admin	3	
ITMO 441	Network Admin & Operations	3	
ITMO 450	Enterprise End-User Sys Admin	3	
ITMO 453	Open Source Server Admin	3	
Select two ITMS e	electives		6
Total Credit Hours	•	12	

Bachelor of Information Technology and Management/ Bachelor of Science in Communication: Journalism of Technology and Business Curriculum

Web Design and Application DevelopmentFocuses on the design and development of fully-interactive websites and applications for Internet deployment.

Code	Title	Credit Hours				
ITMO 441	Network Admin & Operations	3				
ITMD 462	Web Site App Development	3				
Select two cours	es from the following;	6				
ITMO 444	Cloud Computing Technologies	3				
ITMD 453	Enterprise Intelligent Device	3				
ITMD 454	Mass-Market Intelligent Device	3				
ITMD 455	Open-Source Intelligent Device	3				
ITMD 463	Intermediate Web App Develop	3				
ITMD 464	Adv Web Appl Devlpmnt	3				
ITMD 465	Rich Internet Applications	3				
ITMD 466	Service-Oriented Architectures	3				
ITMD 467	Web Systems Integration	3				
ITMD 469	Topics in Application Develop	3				
Total Credit Hour	Total Credit Hours					