

## **King Fahd University of Petroleum & Minerals**

# **Program Requirements and Core Course Descriptions**

**Bachelor of Integrated Design (ITD)** 

**ITD Course Description** 

	Course Desc	•			
No.	\ code	Course Title	Course Bulletin Description		
1.	ITD101	Design Survey	ITD101 Design Survey (2-4-4)		
			"What is design, and Why is it important?". Core principles and theories of design ideas and innovation. Design thinking and problem-solving strategies and techniques. Hands-on introductory-level projects involving essential aspects, processes, and precedents of design. Fundamentals of visualization and communication techniques and multidimensional drawings. Research, examination, and analysis of selected groups of historical and contemporary case studies, concepts, theories, and design pioneers.  Pre-requisite: None		
			Co-requisite: None		
2.	ITD202	Design Ideation	ITD202 Design Ideation (2-4-4)		
			The impact of ideas on design and its end product. Function, form, and space. Creating, transforming, and advancing design concepts analytically and visually. Advanced interdisciplinary design research and thinking methodologies. Concept generation and ideation, design development, and processes. Hands-on intermediate design projects. Advanced multidimensional communication. Research and analysis of historical and contemporary perspectives on critical design theories concerning key concepts in design.		
			Pre-requisite: ITD101 or department approval		
3.	ITD211	Digital	Co-requisite: None ITD211 Digital Visualization I (0-6-3)		
		Visualization I			
			Pre-requisite: None		
4.	ITD203	Design	Co-requisite: None		
T.	110200	Applications	ITD203 Design Application (2-4-4)  Applications of design and its essential role in impacting daily human needs. Processes and techniques for creating holistic, physical, and virtual design solutions. Hands-on projects addressing issues of diverse practices of design application and theories. User-centric design, Playtheory, gamification, globalization, sustainability, affordances theory, and how people interact with the world. Design in response to context.		
			Pre-requisite: ITD202 or department approval Co-requisite: None		
5.	ITD212	Digital Visualization II	ITD 212 Digital Visualization II (0-6-3)  Advanced digital visualizations and computer-aided design. Complex multidimensional sketches, drawings, and designs. Advanced digital 2D and 3D representation and modeling. Accurate and precise design elements, contexts, environments, and technical documentation. Interactive digital information tools and representation. Advanced		

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			applications of generative design tools and practices using industry- standard design applications. Introduction to motion, animation, and
			advanced rendering and lighting techniques.
			Pre-requisite: ITD211 or department approval Co-requisite: None
6.	ITD304	Function &	ITD304 Function & Usability (2-4-4)
		Usability	Design concerning function and usability. Human factors, human-centered design, materials and manufacturing, and their role in enhancing the function and usability of design solutions. Data science, information gathering, and user preferences impact design outputs and trends. Usability research methodologies in the design-development process; contextual inquiry, surveys and interviews, focus groups, user profiling, usability testing, and others. Prototyping digital (e.g., digital twin) and physical (e.g., 3D printed) interventions.
			Pre-requisite: ITD203 or department approval
7.	ITD313	Prototyping and	Co-requisite: None ITD313 Prototyping and Fabrication (0-6-3)
		Fabrication	, ,
			Digital prototyping, digital-twins technologies, and fabrication. Conceptual development, detailing, and manufacturing of prototypes. Basics of ethics of materials, installations, and structures. Simplification of complex designs and breaking-down techniques including expanded and exploded 3D detailed models. Research, exploration, and analysis of digital creation and fabrication techniques and technologies.
			Pre-requisite: ITD212 and CE202 or department approval Co-requisite: None
8.	ITD305	Emotional	ITD 305 Emotional Design and Design for Aging (2-4-4)
		Design and Design for Aging	Emotional design and design for aging. Designing for quality of life and human experiences. Emotional intelligence and human factors theories and practices. Advanced usability testing methodologies. Experience design, narrative design, interactive storytelling and installations, cultural anthropology, and ethnographic studies. Design's quality and longevity and the study of the relationships between humans, objects, and the systems connecting them.
			Pre-requisite: ITD304 or department approval Co-requisite: None
9.	ITD314	XR	ITD314 XR representations I (0-6-3)
		representations I	Introduction to mixed-realities and immersive environments, and navigation and interaction technologies. Designing, adapting, evaluating, and responding to design challenges and constraints for mixed-realities environments. Narrative design, game physics, and rigging. Integration between mixed-reality environments, user preferences, design evaluation studies, and case study analyses.
			Pre-requisite: ITD313 or department approval
10.	ITD399	Summer	Co-requisite: None ITD399 Summer Training (0-0-1)
		Training	A continuous period of 8 weeks of summer training spent in the industry working in any of the fields of design. The training should be carried out in an organization with an interest in one or more of the design fields. Upon completion of the program, the student must submit a formal written report of his work.
			Pre-requisite: CGS399, ENGL214 and Junior Standing

			Co-requisite: None
11.	ITD406	Sandbox Exploration	ITD406 Sandbox Exploration (2-5-5)  Exploration and imaginative design. Futuristic, unrealistic, and unpredictable design challenges and outcomes. Sustainability factors and practices. Interaction between predefined systems and aspects of unexpected outcomes and challenges. Generative design concepts and techniques. Technological advancements and the integration and embedding of technology in daily life and futuristic interdisciplinary designs.  Pre-requisite: ITD305 or department approval
40		\/D	Co-requisite: None
12.	ITD415	XR representations II	Advanced applications of mixed-realities and immersive environments, and navigation and interaction technologies. Innovative solutions, experimentation, and problem-solving to challenges and constraints using mixed-realities representation and immersive technologies. Prototype validation and market-ready solutions using VR, AR, or XR technologies.  Pre-requisite: ITD 314 Co-requisite: None
13.	ITD407	Interdisciplinary Senior Design	ITD 407 Interdisciplinary Senior Design (2-5-5)  Interdisciplinary senior design project. Research methodology, brief formulation, project planning techniques, information documentation, design analysis, and evaluation. Concept development and generation, market surveys, usability testing, manufacturing processes and study, material, and implementation. Project management skills and design ethics.  Pre-requisite: ITD406 and ITD415 Co-requisite: None

**Existing Courses in Other Programs Included in the ITD Program** 

No.	Program	Course Title	Course Bulletin Description
1.	PHYS	General Physics	PHYS 101 General Physics I (3-3-4)
		1	Particle kinematics and dynamics; conservation of energy and linear momentum; rotational kinematics; rigid body dynamics; conservation of angular momentum; simple harmonic motion; gravitation; the statics and dynamics of fluids.
	NAATU	Colordon	Prerequisite: None
2.	MATH	Calculus I	MATH 101 Calculus I (4-0-4)
			Limits and continuity of functions of a single variable. Differentiability. Techniques of differentiation. Implicit differentiation. Local extrema, first and second derivative tests for local extrema. Concavity and inflection points. Curve sketching. Applied extrema problems. The Mean Value Theorem and applications.
			Prerequisite: One-year preparatory mathematics or its equivalent
3.	ICS	Introduction to	ICS 104: Introduction to Programming in Python and C (2-3-3)
		Programming in Python and C	Overview of computer hardware and software. Programming in Python with emphasis on basic program constructs: variables, assignments, expressions, decision structures, looping, functions, lists, files, and exceptions; Introduction to objects and classes. Programming in C with emphasis on pointers and functions with output parameters. Simple multidisciplinary problem solving in science, engineering, and business.
			Prerequisites: None
4.	MATH	Calculus II	MATH 102 Calculus II (4-0-4)
			Definite and indefinite integrals of functions of a single variable. Fundamental Theorem of Calculus. Techniques of integration. Hyperbolic functions. Applications of the definite integral to area, volume, arc length and surface of revolution. Improper integrals. Sequences and series: convergence tests, integral, comparison, ratio, and root tests. Alternating series. Absolute and conditional convergence. Power series. Taylor and Maclaurin series.
			Prerequisite: MATH 101
5.	CE	Statics &	CE 202 Statics & Strength of Materials (3-0-3)
		Strength of Materials	Basic concepts and principles of mechanics; equilibrium of particles in two dimensions; definition of moment and couple; reduction of systems forces; equilibrium of rigid bodies in two dimensions; analysis of truss-type structures and internal forces; geometric properties of cross-section area; centroid and moments of inertia; shear and bending moment diagrams in beams; stress, Stress-strain relationships; stress and deformation of axially loaded members; stress-concentration; thermal stresses; pressure-vessels; torsion-stress and deformation; elastic bending and shear stresses in beams; compound stresses; stress transformation.
			Note: Not open for CE students, Not to be taken for credits with CE 201 or CE 203
6.	ISE	Introduction to	Prerequisite: PHYS 101 ISE 291 Introduction to Data Science (3-0-3)
		Data Science	A hands-on introductory level course on data science techniques and applications. Preliminary statistics, programming, and SQL. Basic data

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			acquisition, cleaning, manipulation, and pre-processing. Emphasis on: Data understanding and preparation; Exploratory data analysis and visualization. Implementing and validating linear and penalized regression, basic classification, and basic clustering methods. Introduction to big data analysis.
			Prerequisite: MATH 102 or MATH 106, ICS 104
7.	ISE	Engineering Probability and Statistics	Data description and presentation. Basic concepts in probability. Random variables and probability distributions. Joint Probability Distributions. Covariance and correlation. Sampling distributions. Point estimation of parameters.
0	205	l-4	Prerequisite: MATH 102
8.	COE	Introduction to Artificial Intelligence	Introduction to Artificial Intelligence (3-0-3)  Introduction to AI; Agents and environments. Uninformed vs. informed search. Constraint satisfaction. Probabilistic inference; conditional probability and independence. Supervised learning using Nearest Neighbor and SVM. Clustering with mean-shift algorithm. Overview of Neural Networks and training. Overview of deep learning and applications. Feature extraction techniques in Computer Vision. Applications in reinforcement learning. Ethical concerns in AI.
			Prerequisite: ISE 291
9.	SWE	Web Engineering and Development	SWE 363 Web Engineering and Development (3-0-3)  Fundamentals of web and mobile applications and how they impact people's lives; Building responsive front-end web and mobile apps; Back-end programming of dynamic and data-driven websites; Development frameworks for web and mobile apps; Security issues of web applications; Practical applications to real-world problems.  Prerequisites: Junior Standing
10.	BUS	Business &	BUS 200 Business & Entrepreneurship (3-0-3)
		Entrepreneurship	Overview of the fourth industrial revolution; opportunity cost, comparative advantage, supply and demand; ownership structures, legal system, contracting; business ethics, socio-cultural factors; managerial functions, business strategies, organizational structures; consumer behavior, segmentation, targeting, positioning, marketing mix; financial statements, financial statement analysis; financial markets, time value of money, risk and return; entrepreneur, entrepreneurial process, innovation, opportunities, business model, customer validation, entrepreneurial team and funding, digital entrepreneurship.
			Prerequisite: None
11.	ISE	Engineering Economic Analysis	ISE 307 Engineering Economic Analysis (3-0-3)  Introduction to concepts of economic decision-making from a cash flow viewpoint. It includes present worth analysis, cash flow equivalence, rates of return, replacement analysis, benefit-cost analysis, depreciation and taxes, and projects break-even point, selection, and sensitivity analysis.
			Prerequisite: Junior Standing

12.	SWE	387 Software Project	SWE 387 Software Project Management (3-0-3)
		Management	Introduction to project management concepts, managing time, cost, change, risk, quality, communication, and people; development and management standards and managing software development projects.
			Prerequisites: Junior Standing

#### Bachelor of Science in Integrated Design (ITD)



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Freshman Y											
Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	C
PHYS101	MS	General Physics I	3	3	4	ITD101	CR	Design Survey	2	4	4
MATH101	MS	Calculus I	4	0	4	MATH102	MS	Calculus II	4	0	4
ENGL101	GS	Intr. To Academic	3	0	3	ICS104	DF	Intro to Python and C	2	3	3
		Discourse									
PE101	GS	Health and Physical	0	2	1	ENGL102	GS	Intro to Report Writing	3	0	3
		Education									
IAS101	GS	Belief and Ethics	2	0	2	IAS121	GS	Language Foundation	2	0	2
		Total	12	5	14			Total	13	7	16
Sophomore											
Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cı
ITD202	CR	Design Ideation	2	4	4	ITD203	CR	Design Application	2	4	4
ITD211	CR	Digital Visualization I	0	6	3	ITD212	CR	Digital Visualization II	0	6	3
CE202	MS	Statics & Strength of	3	0	3	ISE205	CM	<b>Engineering Probability</b>	3	0	3
		Material						and Statistics			
ISE291	DF	Intro to Data Science	3	0	3	COE292	DF	Intro to Artificial	3	0	3
								Intelligence			
ENGL214	GS	Academic & Prof.	3	0	3	IAS212	GS	Professional Ethics	2	0	2
		Communication									
		Total	11	10	16			Total	10	10	15
Junior Year											
Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cı
ITD304	CR	Function and Usability	2	4	4	ITD305	CR	Emotional Design &	2	4	4
								Design for Aging			
ITD313	CR	Prototyping and	0	6	3	ITD314	CR	XR Representation I	0	6	3
		Fabrication									
SWE363	CM	Web Engineering and	3	0	3	ISE307	CM	Engineering Economic	3	0	3
		Development						Analysis			
BUS200	DF	Business and	3	0	3	SWE387	CM	Software Project	3	0	3
		Entrepreneurship						Management			
GS xxx	GS	Global Studies	3	0	3	GS392	DF	Career Essentials	1	0	1
		Elective									
						XXX xxx	BS	Business Elective I	3	0	3
		Total	11	10	16			Total	11	12	17
Summer Se	ssion (jun	ior)				ITD399	CR	Summer Training	0	0	1
Senior Year											
Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cr
ITD406	CR	Sandbox Exploration	2	5	5	ITD407	CR	Interdisciplinary Senior	2	5	5
		•						Design			
ITD415	CR	XR Representation II	0	6	3	ITDxxx	CR	ITD Elective II or	3	0	3
		•						approved Cx			
ITDxxx	CR	ITD Elective I or	3	0	3	XXX xxx	CR	Free Elective II or	3	0	3
		approved Cx						approved Cx			
XXX xxx	CR	Free Elective I or	3	0	3	XXX xxx	CM	Computing Elective	3	0	3
	-	approved Cx	_					3			
XXX xxx	BS	Business Elective II	3	0	3	IAS xxx	GS	Islamic and Arabic	2	0	2
								Studies Elective			
		Total	11	11	17			Total	13	5	16
								Total Credit Hours			12
							MS	Math and Science			15
							GS	General Studies			22
							CR	Core Subjects			46
							CE	Core Electives			6
							CM	Computing			15
							BS	Business			6
							TE				0
								Technical Electives			
							FE DF	Free Electives	-		12
							DF	Digital/Business			12
							DF	Foundation Total			12

### Degree Requirements for the Bachelor of Science in Integrated Design (ITD)

**Program Study Plan Requirements** 

Yea r	Term	Course Code	Course Title	Required or Elective	Pre- / Co- Requisite Courses	Cr Hrs	Type of requiremen ts (Institution, College, or Department)
		ENGL01-xx	Prep. English I (First Quarter)	Required	None	4	Institution
ar		ENGL02-xx	Prep. English II (Second Quarter)	Required	None	4	Institution
		MATH001 PYP001	Prep. Math I Prep. Physical Science	Required Required	None None	2	Institution
	1	PYP001 PYP003	Life Skills	Required	None	1	Institution Institution
چ خ		PE001	Prep. Health and Physical Educ. I	Required	None	1	Institution
Preparatory Year			Total Credit Ho			16	
rat		ENGL03-xx	Prep. English III (Third Quarter)	Required	None	4	Institution
pa		ENGL04-xx	Prep. English IV (Fourth Quarter)	Required	None	4	Institution
P	2	MATH002	Prep. Math II	Required	None	4	Institution
		PYP002 PYP004	Prep. Computer Science	Required	None	1	Institution
		PE002	Prep. Eng. Technology Prep. Health and Physical Educ. II	Required Required	None None	1	Institution Institution
		P L 002	Total Credit Ho		None	15	mstitution
		PHYS101	General Physics I	Required	None	4	Program
		MATH101	Calculus I	Required	None	4	Program
an	1	ENGL101	Introduction to Academic Discourse	Required	None	3	Institution
Ę		PE101	Health and Physical Education	Required	None	1	Institution
res		IAS111	Belief & its Consequences	Required	None	2	Institution
First Year — (Freshman)		ITD404	Total Credit Ho		Nana	14	Durania
		ITD101 MATH102	Design Survey Calculus II	Required Required	None MATH101	4	Program Program
ear		ICS104	Introduction to Programming in	Required	None	3	Institution
ž	2	100104	Python and C	rtequired	None	3	Institution
irst		ENGL102	Intro to Report Writing	Required	ENGL101	3	Institution
ш		IAS121	Language Foundation	Required	None	2	Institution
			Total Credit Ho			16	
<u>~</u>	1	ITD202	Design Ideation	Required	ITD101 or department approval	4	Program
ore		ITD211	Digital Visualization I	Required	None	3	Program
Ē		CE202 ISE291	Statics & Strength of Material	Required	PHYS101	3	Program
ğ		ENGL214	Intro to Data Science Academic & Prof. Communication	Required Required	MATH102 ENGL102	3	Institution Institution
Second Year — (Sophomore)		LINGLZ 14	Total Credit Ho		LINGE 102	16	Institution
Ĭ		ITD203	Design Application	Required	ITD202 or department approval	4	Program
ë.		ITD212	Digital Visualization II	Required	ITD211 or department approval	3	Program
ě		ISE205	Engineering Probability and	Required	ICS104 & MATH102	3	Program
P	2		Statistics				
ပ္ပ	_	COE292	Intro to Artificial Intelligence	Required	None	3	Institution
Se		IAS212	Professional Ethics  Total Credit Ho	Required	None	2 15	Institution
		ITD304	Function and Usability	Required	ITD 203 or department approval	4	Program
		ITD313	Prototyping and Fabrication	Required	ITD212 & CE 202 or department approval	3	Program
	1	SWE363	Web Engineering and Development	Required	Junior Standing	3	Program
o.		BUS200	Business and Entrepreneurship	Required	None	3	Institution
Ë		GS xxx	Global Studies Elective	Required	None	3	Institution
Third Year — (Junior)		ITD305	Total Credit Hole Emotional Design & Design for Aging	Required	ITD304 or department approval	<b>16</b> 4	Program
ea		ITD314	XR Representation I	Required	ITD313 or department approval	3	Program
<b>≻</b>	2	ISE307	Engineering Economic Analysis	Required	Junior Standing	3	Program
Ę		SWE387	Software Project Management	Required	Junior Standing	3	Program
-		GS392	Career Essentials	Required	None	1	Institution
		XXX xxx	Business Elective I	Required	None	3	Program
		ITD 399	Total Credit Ho	Required	ENGL 214 & CGS 392	<b>17</b>	Institution
	S	110 399	Total Credit Hours			1	Institution
		ITD406	Sandbox Exploration	Required	ITD305 or department approval	5	Program
Ē		ITD415	XR Representation II	Required	ITD314 or department approval	3	Program
Fourth Year — (Senior)	1	ITDxxx	ITD Elective I or approved Cx	Required	Program specific	3	Program
Se	'	XXX xxx	Free Elective I or approved Cx	Elective	Department Specific	3	Program
Ĭ		XXX xxx	Business Elective II	Elective	Department Specific	3	Program
ar.		ITD 407	Total Credit Ho		I ITD 400	17	Due sur : : :
Υe		ITD407	Interdisciplinary Senior Design	Required	ITD406	5	Program
£		ITDxxx XXX xxx	ITD Elective II or approved Cx Free Elective II or approved Cx	Required Elective	Program specific  Department Specific	3	Program Program
ž	2	XXX xxx	Computing Elective	Elective	Department Specific  Department Specific	3	Program
For					<del>, , , , , , , , , , , , , , , , , , , </del>		
ъ.		IAS xxx	Islamic and Arabic Studies Elective	Required	None	2	Institution

Yea r	Term	Course Code	Course Title	Required or Elective	Pre- / Co- Requisite Courses	Cr Hrs	Type of requiremen ts (Institution, College, or Department)
Total Credit Hours						128	

#### **Curriculum Structure**

Every student majoring in Integrated Design (ITD) must complete the following curriculum:

#### 1. MATH/SCIENCE

No.	Course	Course Name	Cr. Hrs.
1.	PHYS101 (3-3-4)	General Physics I	4
2.	MATH101 (4-0-4)	Calculus I	4
3.	MATH102 (4-0-4)	Calculus II	4
4.	CE202 (3-0-3)	Statics and Strength of Materials	3
	Total	-	15

#### 2. GENERAL STUDIES

	Course	Course Name	Cr. Hrs.
1.	IAS111 (2-0-2)	Belief and its Consequences	2
2.	IAS121 (2-0-2)	Practical Grammar	2
3.	IAS212 (2-0-2)	Professional Ethics	2
4.	IASxxx (2-0-2)	IAS Elective (IAS 303 or IAS 333)	2
5.	ENGL101 (3-0-3)	Introduction to Academic Discourse	3
6.	ENGL102 (3-0-3)	Introduction to Report Writing	3
7.	ENGL214 (3-0-3)	Academic and Professional Communication	3
8.	GS392 (3-0-3)	Career Essentials	1
9.	GSxxx (3-0-3)	GS Elective	3
10.	PE101 (0-2-1)	Physical Education I	1
	Total		22

#### 3. DIGITAL AND BUSINESS FOUNDATION

<b>v</b>					
	Course	Course Name	Cr. Hrs.		
1	ICS104 (2-3-3)	Introduction to Programming in Python and C	3		
2	ISE291 (3-0-3)	Introduction to Data Science	3		
3	COE292 (3-0-3)	Introduction to Artificial Intelligence	3		
4	BUS200 (3-0-3)	Business and Entrepreneurship	3		
	Total	·	12		

## 4. MAJOR AREA CORE REQUIREMENTS

	Course	Course Name	Cr. Hrs.
1.	PHYS101 (3-3-4)	General Physics I	4
2.	MATH101 (4-0-4)	Calculus I	4
3.	ITD101 (2-4-4)	Design Survey	4
4.	MATH102 (4-0-4)	Calculus II	4
5.	ITD202 (2-4-4)	Design Ideation	4
6.	ITD211 (0-6-3)	Digital Visualization I	3
7.	CE202 (3-0-3)	Statics & Strength of Materials	3
8.	ISE205 (3-0-3)	Engineering Probability and Statistics	3
9.	ITD203 (2-4-4)	Design Applications	4
10.	ITD212 (0-6-3)	Digital Visualization II	3
11.	ITD304 (2-4-4)	Function & Usability	4
12.	ITD313 (0-6-3)	Prototyping and Fabrication	3
13. /	ITD305 (2-4-4)	Emotional Design and Design for Aging	4
14.	ITD314 (0-6-3)	XR representations I	3
15.	SWE363 (3-0-3)	Web Engineering and Development	3
16.	ISE307 (3-0-3)	Engineering Economic Analysis	3
17.	ITD399 (0-0-1)	Summer Training	1

18.	ITD406 (2-5-5)	Sandbox Exploration	5
19.	ITD415 (0-6-3)	XR representations II	3
20.	ITD407 (2-5-5)	Interdisciplinary Senior Design	5
21.	XXXxxx (3-0-3)	Business Elective I	3
22.	XXXxxx (3-0-3)	Business Elective II	3
23.	XXXxxx (3-0-3)	Computing Elective I	3
	Total		76

5. Computing Electives (from the list or department approval)

	Department	Course	Credit Hours
1.	Software Engineering	SWE302 Game Programming	3
2.		SWE490 Special Topics I	3
3.		SWE491 Special Topics II	3
4.		SWE497 Undergraduate Research	3
5.		ICS483 Computer Vision	3
6.	Information and Computer Science	ICS490 Special Topics I	3
7.		ICS491 Special Topics II	3
8.		ICS497 Directed Undergraduate Research	3
9.		ISE324 Work and Process Improvements	3
10.	Industrial and Systems Engineering	ISE430 Industrial Engineering in Healthcare Systems	3
11.		ISE447 Decision Making	3
12.		ISE468 Introduction to Machine Learning and Data Analytics	3
13.		ISE496 Industrial Strategic Planning & Balanced Scorecard	3

6. Business Electives (from the list or department approval)

	Department	Course	Credit Hours
1.		MKT 250 Principles of Marketing	3
2.		MKT 360 Product & Brand Management	3
3.		MKT 370 Integrated Marketing Communications	3
4.		MKT 390 New Product Development	3
5.	]	MKT 410 Consumer Behavior	3
6.	Marketing	MKT 430 Services Marketing	3
7.		MKT 450 Strategic Marketing	3
8.		MKT 460 Advertising	3
9.	]	MKT 470 Personal Selling and Sales Management	3
10.	]	MKT 485 Digital Marketing	3
11.		ENTR 413 Entrepreneurial Marketing	3
12.		MKT 495 Special Topics in Marketing	3
13.		MGT 301 Principles of Management	3
14.		MGT 310 Organization Behavior	3
15.		MGT 413 International Management	3
16.	Management	MGT 430 Organizational Leadership	3
17.		MGT 440 International Business	3
18.		MGT 450 Management of Innovation and Change	3
19.		MGT 495 Special Topics in Management	3
20.	Entrepreneurship	ENTR 322 Introduction to Entrepreneurship	3
21.		ENTR 413 Entrepreneurial Marketing	3
22.		ENTR 415 Social Entrepreneurship	3
23.		ENTR 416 Entrepreneurship and New Venture Creation	3
24.		ENTR 423 Small and Medium Enterprise Management	3