



Academic Plan

Semester : First Semester 2013-2014

Collge : Sciences

Crs In Program : 44

Dept : Mathematics

Prog : بكا-رياضيات ٢

Hrs In Program : 132

Level : 1 رياضيات م١ (18) Hrs (6) Crs

Group : رياضيات متطلبات تخصص م١ (18) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	ENG 140	English Language 1	3
2	MATH 101	Calculus 1	4
3	PH 101	General Physics	3
4	QUR 101	The Holy Qur'an 1	1
5	IDE 133	Monotheism	2
6	CHEM 101	General Chemistry	4
7	PH 119	Physics I Laboratory	1

Level : 2 رياضيات م٢ (17) Hrs (6) Crs

Group : رياضيات متطلبات تخصص م٢ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	QUR 151	The Holy Qur'an (2)	1
2	MATH 102	Calculus 2	4
3	STA 111	Introduction to Probability & Statistics	3
4	CS 140	Computer Programming 1	4
5	JR 200	Fiqh (Islamic Jurisprudence)	2
6	ENG 190	English Language 2	3

Level : 3 رياضيات م٣ (16) Hrs (6) Crs

Group : رياضيات متطلبات تخصص م٣ (16) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	MATH 203	Calculus 3	4
2	MATH 220	Elements of sets & Structures	3
3	MATH 251	Math Software	2
4	PH 106	General Physics 2	4
5	HAD 116	Sirah (Biography of Prophet Mohar)	2
6	QUR 201	The Holy Qur'an (3)	1

Level : 4 رياضيات م٤ (17) Hrs (6) Crs

Group : رياضيات متطلبات تخصص م٤ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	MATH 222	Introduction to Number Theory	3
2	MATH 223	Linear Algebra	4
3	MATH 231	Introduction to Differential Equation	3
4	STA 211	Mathematical Statistics	4
5	ART 102	Arabic Composition	2
6	QUR 251	The Holy Qur'an (4)	1

Level : 5 رياضيات م٥ (17) Hrs (5) Crs

Group : رياضيات متطلبات تخصص م٥ (17) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	MATH 311	Real Analysis	4
2	MATH 333	Numerical Analysis 1	4
3	MATH 351	Introduction to Operations Research	3
4	ECO 100	Principles of Economics	2
5	MATH 354	Combinatorics and Graphs	4

Level : 6 رياضيات م٦ (16) Hrs (5) Crs

Group : رياضيات متطلبات تخصص م٦ (16) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	MATH 312	Complex Variables	4
2	MATH 321	Modern Algebra	4
3	MATH 381	Selected Course 1	3

Level : 6 رياضيات م٦ (16) Hrs (5) Crs

Group : رياضيات متطلبات تخصص م٦ (16) Hrs (5) Crs

S	Subj Code	Course Name	Hours
4	MATH 371	Financial Mathematics	3
5	COM 207	Communication Skills	2

Level : 7 رياضيات م٧ (15) Hrs (5) Crs

Group : رياضيات متطلبات تخصص م٧ (15) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	MATH 434	Partial Differential Equation	4
2	MATH 461	Introduction to Cryptography & Cod	4
3	MATH 483	Selected Course 2	3
4	ENG 206	Technical Writing	2
5	HST 102	History of KSA	2

Level : 8 رياضيات م٨ (16) Hrs (4) Crs

Group : رياضيات متطلبات تخصص م٨ (16) Hrs (4) Crs

S	Subj Code	Course Name	Hours
1	MATH 463	Modeling and Simulation	4
2	MATH 433	Numerical Analysis 2	4
3	MATH 485	Selected Course 3	4
4	MATH 499	Research Project	2
5	PSY 301	Educational Psychology	2



Academic Plan

Semester : First Semester 2013-2014

Collge : Sciences

Crs In Program : 50

Dept : Physics

Prog : بكافيزياء ٢

Hrs In Program : 132

Level : 1 الفيزياء م١ (18) Hrs (6) Crs

Group : فيزياء متطلبات تخصص م١ (18) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	ENG 140	English Language 1	3
2	MATH 101	Calculus 1	4
3	PH 101	General Physics	3
4	QUR 101	The Holy Qur'an 1	1
5	IDE 133	Monotheism	2
6	CHEM 101	General Chemistry	4
7	PH 119	Physics I Laboratory	1

Level : 2 الفيزياء م٢ (17) Hrs (6) Crs

Group : فيزياء متطلبات تخصص م٢ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	QUR 151	The Holy Qur'an (2)	1
2	MATH 102	Calculus 2	4
3	PH 105	Classical Mechanics 1	3
4	CHEM 102	General Chemistry 2	4
5	JR 200	Fiqh (Islamic Jurisprudence)	2
6	ENG 190	English Language 2	3

Level : 3 فيزياء م٣ (16) Hrs (7) Crs

Group : فيزياء متطلبات تخصص م٣ (16) Hrs (7) Crs

S	Subj Code	Course Name	Hours
1	PH 281	Thermal Physics & Mechanics Lab	2
2	MATH 251	Math Software	2
3	PH 230	Thermal Physics	3
4	PH 250	Modern Physics	3
5	STA 111	Introduction to Probability & Statistics	3
6	QUR 201	The Holy Qur'an (3)	1
7	HAD 116	Sirah (Biography of Prophet Mohar)	2

Level : 4 فيزياء م٤ (18) Hrs (7) Crs

Group : فيزياء متطلبات تخصص م٤ (18) Hrs (7) Crs

S	Subj Code	Course Name	Hours
1	PH 220	Electricity and Magnetism	3
2	PH 240	Waves & Optics	3
3	PH 282	Waves and Optics Laboratory	2
4	MATH 221	Intro. to Linear Algebra	3
5	QUR 251	The Holy Qur'an (4)	1
6	MATH 203	Calculus 3	4
7	ART 102	Arabic Composition	2

Level : 5 فيزياء م٥ (15) Hrs (5) Crs

Group : فيزياء متطلبات تخصص م٥ (15) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	PH 303	Classical Mechanics 2	3
2	PH 321	Electromagnetic Fields	3
3	PH 381	Electromagnetism Laboratory	2
4	CS 140	Computer Programming1	4
5	PH 333	Mathematical Physics 1	3

Level : 6 فيزياء م٦ (16) Hrs (6) Crs

Group : فيزياء متطلبات تخصص م٦ (16) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	PH 334	Mathematical Physics 2	3

Level : 6 فيزياء م٦ (16) Hrs (6) Crs

Group : فيزياء متطلبات تخصص م٦ (16) Hrs (6) Crs

S	Subj Code	Course Name	Hours
2	PH 312	Quantum Mechanics	3
3	PH 332	Statistical Physics	3
4	PH 324	Electronics	3
5	PH 382	Electronics Laboratory	2
6	COM 207	Communication Skills	2

Level : 7 فيزياء م٧ (17) Hrs (6) Crs

Group : فيزياء متطلبات تخصص م٧ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	PH 461	Solid state Physics	4
2	PH 481	Solid State & Modern Physics	2
3	PH 462	Atomic Physics	3
4	PH 464	Nuclear Physics	3
5	PH 436	Computational Physics	3
6	ENG 206	Technical Writing	2

Level : 8 فيزياء م٨ (15) Hrs (5) Crs

Group : فيزياء متطلبات تخصص م٨ (15) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	PH 404	Fluid Mechanics	3
2	PH 471	Special Topics in Applied Physics	3
3	PH 472	Special Topics in Applied Physics	3
4	HST 102	History of KSA	2
5	PH 498	Final Year Project	2
6	PSY 301	Educational Psychology	2



Academic Plan

Semester : First Semester 2013-2014

Collge : Sciences

Crs In Program : 46

Dept : Chemistry

Prog : بكا-كيمياء

Hrs In Program : 132

Level : 1 كيمياء م١ (17) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م١ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	MATH 101	Calculus 1	4
2	PH 101	General Physics	3
3	QUR 101	The Holy Qur'an 1	1
4	IDE 133	Monotheism	2
5	CHEM 101	General Chemistry	4
6	HST 102	History of KSA	2
7	PH 119	Physics I Laboratory	1

Level : 2 كيمياء م٢ (18) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٢ (18) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	CHEM 102	General Chemistry 2	4
2	CHEM 121	Organic chemistry 1	4
3	STA 111	Introduction to Probability & Statisti	3
4	MATH 103	Mathematics	4
5	JR 200	Fiqh (Islamic Jurisprudence)	2
6	QUR 151	The Holy Qur'an (2)	1

Level : 3 كيمياء م٣ (17) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٣ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	CHEM 221	Organic Chemistry 2	4
2	CHEM 211	Inorganic Chemistry 1	4
3	CHEM 241	Physical Chemistry 1	4
4	CHEM 251	Software in Chemistry	2
5	HAD 116	Sirah (Biography of Prophet Mohar	2
6	QUR 201	The Holy Qur'an (3)	1

Level : 4 كيمياء م٤ (17) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٤ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	CHEM 212	Inorganic Chemistry 2	4
2	CHEM 231	Analytical Chemistry	4
3	CHEM 242	Physical Chemistry 2	4
4	CHEM 224	Organic Compounds Spectroscop	2
5	ART 102	Arabic Composition	2
6	QUR 251	The Holy Qur'an (4)	1

Level : 5 كيمياء م٥ (16) Hrs (5) Crs

Group : كيمياء متطلبات تخصص م٥ (16) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	PH 255	مقدمة للفيزياء الحديثة	2
2	CHEM 313	Organometallic Chemistry	3
3	CHEM 325	Heterocyclic Chemistry	3
4	CHEM 332	Instrumental Analysis	4
5	CHEM 343	Electrochemistry and Corrosion	4

Level : 6 كيمياء م٦ (17) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٦ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	CHEM 333	Chemical Separation Methods	4
2	CHEM 345	Colloids and Surface Chemistry	4
3	CHEM 346	Quantum Chemistry	2

Level : 6 كيمياء م٦ (17) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٦ (17) Hrs (6) Crs

S	Subj Code	Course Name	Hours
4	CHEM 326	Synthesis in Organic Compounds	2
5	CHEM 327	Organic Reactions Mechanism	3
6	PSY 301	Educational Psychology	2

Level : 7 كيمياء م٧ (16) Hrs (6) Crs

Group : كيمياء متطلبات تخصص م٧ (16) Hrs (6) Crs

S	Subj Code	Course Name	Hours
1	CHEM 428	Polymers and petrochemicals	2
2	CHEM 447	Homogeneous and heterogeneous	2
3	CHEM 448	Solid State & Material Science	4
4	CHEM 434	Environmental analytical chemistry	3
5	CHEM 414	Selected Course 2	3
6	ENG 206	Technical Writing	2

Level : 8 كيمياء م٨ (14) Hrs (5) Crs

Group : كيمياء متطلبات تخصص م٨ (14) Hrs (5) Crs

S	Subj Code	Course Name	Hours
1	CHEM 415	Nuclear & Radiation Chemistry	2
2	CHEM 449	Nano-chemistry	2
3	CHEM 429	Natural Products	4
4	CHEM 416	Selected Course 3	3
5	CHEM 461	Final Project	3