Abu Dhabi Polytechnic (ADPoly)

Program Name STUDY PLAN

SPECIALIZATION: SSA - Applied Bachelor (AB)

Total Credits Hours = 153 C.H.

Year 1

1st Semester

Description (Math and Sciences, Humanities, Engineering Technology ….etc.)

No.	Course	Prerequiste	L	B	T	CH	CR
MATH-100	PreCalculus *	NA	3	2	2	7	4
ICT-110	Intro to Programming & Problem Solving	NA	2	2	2	6	3
HUM-xxx	Humanities - Elective (I)	NA	2	2	2	6	3
HUM-xxx	Humanities - Elective (II)	NA	2	2	2	6	3
ENGL-120	English Skills	NA	3	0	2	5	0
ENGL-121	Academic English 1	ENGL120	3	0	2	5	3
Total			15	8	12	35	12

2nd Semester

Description (Math and Sciences, Humanities, Engineering Technology ….etc.)

No.	Course	Prerequiste	L	B	T	CH	CR
ICT-120	Object Oriented Programming in Java	ICT-110	2	2	2	6	3
ICT-121	Intro to Computer Networks	ICT-110	2	2	2	6	3
MATH-111	Calculus I	MATH-100	2	2	2	6	3
ENG-125	Intro to Computer Electronics	NA	2	2	2	6	3
ENG-122	Academic English 2	ENGL121	3	0	2	5	3
Total			11	8	10	29	15

Summer

Description (Math and Sciences, Humanities ….etc.)

No.	Course	Prerequiste	L	B	T	CH	CR
ICT-131	Logic Design & Computer Organization	ENG-125	2	2	2	6	3
ICT-132	Fundamentals of Information Security	ICT-121	2	2	2	6	3
ICT-122	Discrete Mathematics	MATH-111	3	0	2	6	3
ENGL-211	Public Speaking (Blended L.)	ENGL122	1	0	2	3	1
ENGL-212	Literature Review (Blended L.)	ENGL122	1	0	2	3	1
ENGL-213	Report Writing (Blended L.)	ENGL122	1	0	2	3	1
Total			10	4	12	27	12

Year 2

1st Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
ICT-210	Introduction to Software Security	ICT-120 & ICT-132	2	2	2	6	3
ICT-211	Data Structure and Algorithms	ICT-120 & ICT-122	2	2	2	6	3
NCS-217	Network Security	ICT-121	2	2	2	6	3
ICT-212	Intro to Database Systems	ICT-120	2	2	2	6	3
Total			8	8	8	24	12

2nd Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
ICT-220	Operating Systems Security	ICT-131 & ICT-132	2	2	2	6	3
SSD-220	Web Programming and Security	ICT-132 & ICT-212	2	2	2	6	3
SSA-222	Information Systems Security	ICT-132	2	2	2	6	3
NCS-220	Ethical Hacking and Digital Forensics	NCS-217	2	2	2	6	3
NCS-222	Intro to Applied Cryptography	ICT-132	2	2	2	6	3
Total			10	10	10	30	15

Summer

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-230	Microsoft Windows Server Security - OCT I	ICT-220	1	6	0	7	2
SSA-236	MS Exchange Server Security - OCT I	ICT-220	1	6	0	7	2
SSA-232	Linux/UNIX Operating System Security - OCT I	ICT-220	1	6	0	7	2
SSA-233	MS SharePoint Server Security - OCT I	ICT-220	1	6	0	7	1
SSA-234	Physical Security and Biometrics - OCT I	SSA-222	1	6	0	7	2
SSA-235	Ethical Hacking - OCT I	NCS-220	1	6	0	7	1
Total			6	36	0	42	10

Year 3

1st Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-316	Virtualization Technology and Security	ICT-220 & NCS-217	2	2	0	4	3
SSA-317	Client/Server Security Admin	ICT-220 &NCS-217	2	2	0	4	3
SSA-318	Securing Linux/UNIX Server	ICT-220	2	2	0	4	3
SSA-319	Cloud and Infrastructure Security	NCS-217	2	2	0	4	3
HUM-402	Creativity, Innovation and Entrepreneurship	NA	3	0	0	3	3
Total			11	8	0	19	15

2nd Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-326	Penetration and Vulnerability Analysis	SSA-235	2	2	0	4	3
SSD-327	Malware Analysis: Tools & Techniques	SSD-220 & SSA-235	2	2	0	4	3
SSA-328	Security Tools and Technologies: Windows	SSA-230	2	2	0	4	3
SSA-329	Database Server Security	ICT-212 & SSA-230	2	2	0	4	3
SSA-341	InfoSec Project Management	SSA-222	2	0	2	4	2
Total			10	8	2	20	14

Summer

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-336	Linux-Unix Security Administartion - OCT II	SSA-318	1	6	0	7	2
SSA-337	MS Windows Server Security Administration - OCT II	SSA-328	1	6	0	7	2
SSA-338	Database Server Security - OCT II	SSA-329	1	6	0	7	2
SSA-339	MS Sharepoint Security Administration - OCT II	SSA-233	1	6	0	7	1
SSA-342	Exchange Server Security - OCT II	SSA-236	1	6	0	7	2
SSA-343	Mobile Programming and Security - OCT II	ICT-132 & ICT-120	1	6	0	7	1
Total			6	36	0	42	10

Year 4

1st Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-410	Advanced Cryptography	NCS-222	2	2	0	4	3
SSD-411	Advanced Web Security	SSD-220	2	2	0	4	3
SSA-412	Identity Management	SSA-222	2	2	0	4	3
SSA-413	Risk Analysis and Management	SSA-326	2	2	0	4	3
SSA-414	Graduation Project I	Dept. Approval	1	2	0	3	2
SSA-xxx	Tech. Elective Course-I	Elective	2	2	0	4	3
			11	12	0	23	17

2nd Semester

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-420	Incident Handling and Response	SSA-413	2	2	0	4	3
SSA-421	Information Assurance & Security Manag.	SSA-413	3	0	0	3	3
SSA-422	Ethics, Law and Policy in Cyber Space	SSA-413	3	0	0	3	3
SSA-423	Graduation Project II	SSA-414	1	4	0	5	3
SSA-xxx	Tech. Elective Course-II	Elective	2	2	0	4	3
Total			11	8	0	19	15

Summer

Description

No.	Course	Prerequiste	L	B	T	CH	CR
SSA-430	On Job Training (Internship)	Dept. Approval					6
Total			0	0	0	0	6

NOTES:

- HUMxxx Humanities Elective to be selected after consultation with the adviso
- Pre-requisite for Calculus I (MATH-111): placement exam>70%, or precalculus MATH100
- * MATH-100 - Number of credits(4) is not counted for Graduation requirements
- Students can select their specialization at end of 2nd Semester of 2nd year
- SSAxxx Network and Cyber Security Elective to be taken from ISET advanced courses after consultation with the advisor
- Pre-requisitse for NCS-414 are: Completion of 110 credits and cGPA ≥ 2.0
- Pre-requisitses for NCS-430: Completion of at least 140 credits

Major (SSD-xxx) Technical Electives (6 credits)

Code	Course Title		PREREQ	L,B,T	CR
SSD-415	Homeland Security		NCS-220	2,2,0	3
SSD-416	Security Governance and Compliance		SSA-222	3,0,0	3
SSD-417	Security Architectures and Models		SSA-222	3,0,0	3
SSD-418	Software Security Trends		SSD-341	2,2,0	3
SSD-419	Human Computer Interaction Design		SSD-342	2,2,0	3
SSD-425	Critical SW Security Controls & Stndrds		SSD-411	2,2,0	3
SSD-426	Data Mining and Information Retrieval		SSD-316	3,0,0	3
SSD-427	Privacy in a networked world		SSA-222	3,0,0	3
SSD-428	Advanced Mobile Application Development		SSD-311	3,0,0	3

Humanities (HUM-xxx) Electives (6 credits)

Code	Course Title (credit hours)
HUM-110	Life-Long Learning Skills (3 cr.)
HUM-111	Islamic Culture (3cr.)
HUM112	Emirates Society & Culture (3 cr.)
HUM-211	Arabic Communication Skills (3 cr.)
HUM-212	Applied Research & Development Skills (3 cr.)