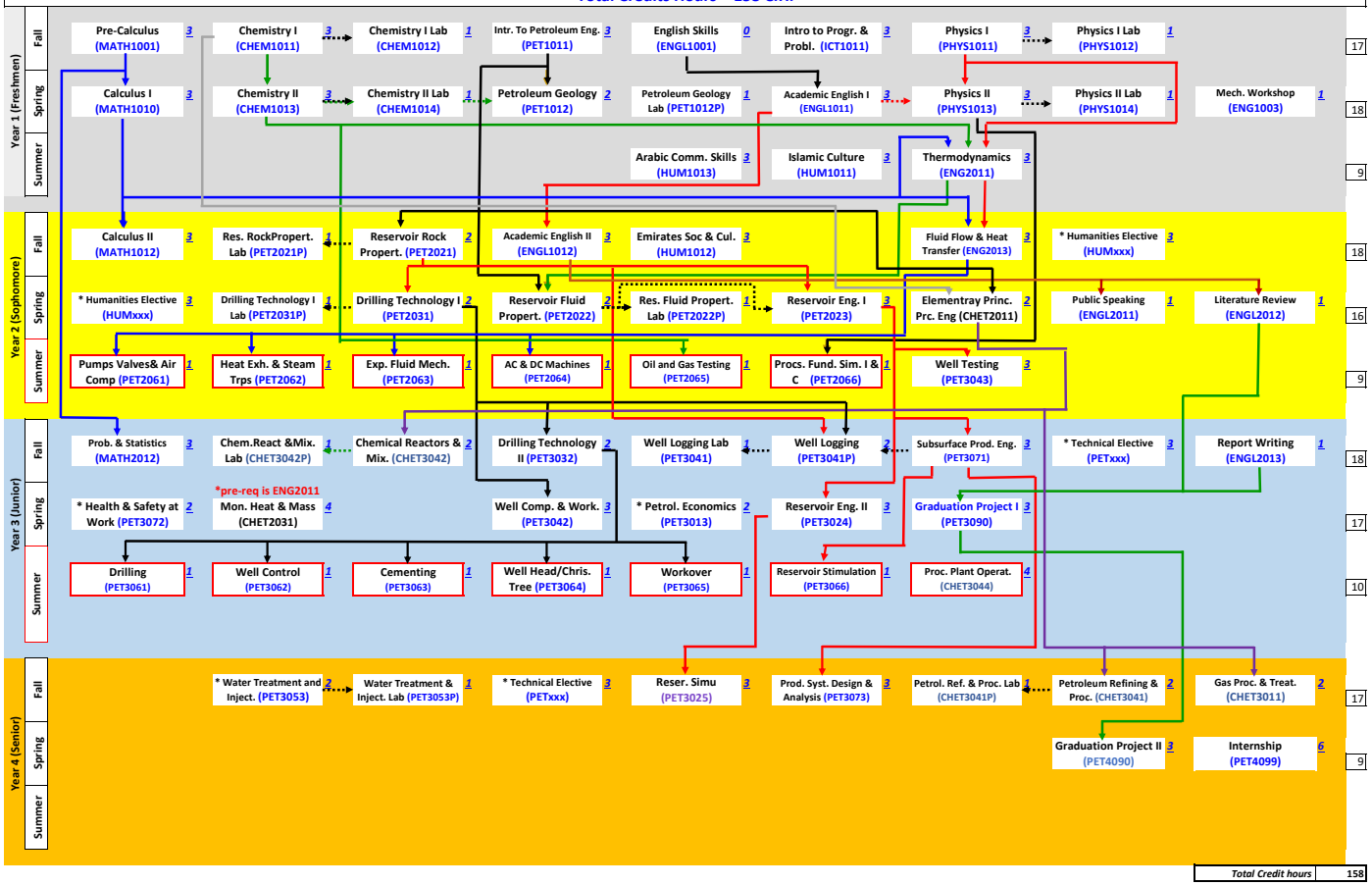
Abu Dhabi Polytechnic (ADPoly)	بوليتكنك POLYTECHNIC	PET

Program Name FLOW CHART PLAN

SPECIALIZATION: Applied Bachelor in Petroleum Engineering Technology with a Minor in Oil & Gas ProcessEngineering Technology (Applied Bachelor, AB)

Total Credits Hours = 158 C.H.



Pre-requisite: Means post-requisite can not be taken at the same time

Co-requisite: Means course must be taken at the same time, or has already been completed

Graduation Projects pre-requisite:

PET-3090: Completion of 90 Credit Hours

PET-4090: Senior Level Standing and Advisor Approval

Pre-requisites for PET-3013 & PET-3053: Senior standing for Applied Bachelor students

Pre-requisite for Calculus I (MATH-1011): placement exam>70%, or precalculus MATH1001

On-the-Campus Training: Sophomore and Junior Standing

Students can select their specialization after taking PET-1011

Major (PET-xxxx) Technical Electives (6 credits)		
Code	Course Title (credit hours)	Pre-Req.
PET-3051	Numerical Methods (3 cr.)	ICT-1011 Intro to Progr. & Probl.
PET-3052	Enhanced Oil Recovery (3 cr.)	Advisor (PET999) + PET 3071 Sub. Production Eng.
PET-3054	Special Topics in PET (3 cr.)	Advisor (PET999)
CHEM-4011	Envrom. Science &Analyses (3 cr.)	Advisor (PET999) & CHEM-1011 Chemistry I
CHET3054	Special Topics in ChET(3 cr.)	Advisor (PET999)

Humanities (HUM-xxxx) Elective (3 credits + HUM-3011)		
Code	Course Title (credit hours)	Pre-Req.
HUM-3011	Creat., Innov. & Entepreneurship (3 cr.) *Mandatory	ENGL-2013 Report Writing
HUM-1000	Life-Long Learning Skills (3 cr.)	No pre-requisite
HUM-2011	Psychology (3 cr.)	ENGL-1012 Academic English II
HUM-3012	Personal Development & Planning (2 cr.)	ENGL-1012 Academic English II
HUM-XXXX	Other Offered Humanties Course	Advisor (PET999)
HUM-2012	Applied Research Methods	No pre-requisite

Abu Dhabi Polytechnic (ADPoly) | PET

Program Name ADVISORY PLAN

SPECIALIZATION: Applied Bachelors in Petroleum Engineering Technology with a minor in Oil & Gas (AB) (Applied Bachelor)

Total Credits Hours = 158 C.H.

Year 1

1st Semester

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

No.	Course	L	B	T	CH	CR
MATH1001	Pre Calculus	3			3	3
CHEM1011	Chemistry I	3			3	3
CHEM1012	Chemistry I Lab		3		3	1
PET1011	Intr. To Petroleum Eng.	3			3	3
PHYS1011	Physics I	3			3	3
PHYS1012	Physics I Lab		3		3	1
ENGL1001	English Skills	3			3	0
ICT1011	Intro to Progr. & Probl. Solving	3			3	3
Total		18	6	0	24	17

2nd Semester

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

No.	Course	L	B	T	CH	CR
MATH1010	Calculus I	3			3	3
PHYS1013	Physics II	3			3	3
PHYS1014	Physics II Lab		3		3	1
CHEM1013	Chemistry II	3			3	3
CHEM1014	Chemistry II Lab		3		3	1
ENGL1011	Academic English I	3			3	3
PET1012	Petroleum Geology	2			2	2
PET1012P	Petroleum Geology Lab		3		3	1
ENG1003	Mech. Workshop	1			3	1
Total		15	9	0	26	18

Summer

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

No.	Course	L	B	T	CH	CR
HUM1013	Arabic Communication Skills	3			3	3
HUM1011	Islamic Culture	3			3	3
ENG2011	Thermodynamics	3			3	3
Total		9	0	0	9	9

Year 2

1st Semester

Description

No.	Course	L	B	T	CH	CR
MATH1020	Calculus II	3			3	3
HUM1012	Emirates Society & Culture	3			3	3
PET2021	Reservoir Rock Properties	2			2	2
PET2021P	Reservoir Rock Properties Lab		3		3	1
ENGL1012	Academic English II	3			3	3
HUMxxxx	Humanities Elective	3			3	3
ENG2013	Fluid Flow & Heat Transfer	3			3	3
Total		17	3	0	20	18

2nd Semester

Description

No.	Course	L	B	T	CH	CR
PET2022	Reservoir Fluid Properties	2			2	2
PET2022P	Reservoir Fluid Properties Lab		3		3	1
PET2031	Drilling Technology I	2			2	2
PET2031P	Drilling Technology I Lab		3		3	1
PET2023	Reservoir Engineering I	3			3	3
HUMxxx	Humanities Elective	3			3	3
CHET2011	Elementary Principles of Process Eng	2			2	2
ENGL2011	Public Speaking (Blended L.)	3			3	1
ENGL2012	Literature Review (Blended L.)	3			3	1
Total		18	6	0	24	16

Summer

Description

No.	Course	L	B	T	CH	CR
PET2061	Pumps Valves & Air Copmressors			3	3	1
PET2062	Heat Exchangers & Steam Traps			3	3	1
PET2063	Experimental Fluid Mechanics			3	3	1
PET2064	AC & DC Machines			3	3	1
PET2065	Oil and Gas Testing			3	3	1
PET2066	Process Simulation & Instru. & Control			3	3	1
PET3043	Well Testing	3			3	3
Total		3	0	18	21	9

Year 3

1st Semester

Description

No.	Course	L	B	T	CH	CR
PET3071	Subsurface Production Engineering	3			3	3
PET3041	Well Logging	2			2	2
PET3041P	Well Logging Lab		3		3	1
PET3032	Drilling Technology II	2			2	2
CHET3042	Chemical Reactors and Mixing	2			2	2
CHET3042P	Chemical Reactors and Mixing Lab		3		3	1
PETxxx	Technical Elective	3			3	3
MATH2012	Probability & Statistics	3			3	3
ENGL2013	Report Writing	3			3	1
Total		18	6	0	24	18

2nd Semester

Description

No.	Course	L	B	T	CH	CR
PET3024	Reservoir Engineering II	3			3	3
PET3013	Petrol. Economics	2			2	2
CHET2031	Momentum, Heat & Mass Transfer	4			4	4
PET3042	Well Completion & Workover	3			3	3
PET3090	Graduation Project	3			3	3
PET3072	Health & safety at Work (HSW)	2			2	2
Total		17	0	0	17	17

Summer

Description

No.	Course	L	B	T	CH	CR
PET3061	Drilling			3	3	1
PET3062	Well Control			3	3	1
PET3063	Cementing			3	3	1
PET3064	Well Head / Christmas Tree			3	3	1
PET3065	Workover			3	3	1
PET3066	Reservoir Stimulation			3	3	1
CHET3044	Process Plant Operations	4			4	4
Total		4	0	18	22	10

Year 4

1st Semester

Description

No.	Course	L	B	T	CH	CR
PET3073	Prod. Syst. Design & Analysis	3			3	3
PET3025	Reservoir Simulation	3			3	3
CHET3041	Petroleum Refining & Processing	2			2	2
CHET3041P	Petrol Refining & Processes Lab		3		3	1
CHET3011	Gas Processing & Treatment	2			2	2
PET3053	Water Treatment and Injection	3			2	2
PET3053P	Water Treatment and Injection Lab		3		3	1
PETxxx	Technical Elective	3			3	3
		16	6	0	21	17

2nd Semester

Description

No.	Course	L	B	T	CH	CR
PET4099	Internship			25	25	6
PET4090	Graduation Project	3			3	3
Total		3	0	25	28	9

Summer

Description

No.	Course	L	B	T	CH	CR
Total		0	0	0	0	0

NOTES:

PETXXXX	PET Elective to be taken from PET advanced courses after consultation with the advisor
HUMXXXX	Humanity Elective to be selected after consultation with the advisor
Pre-requisite for Calculus I (MATH-1011): placement exam>70%, or precalculus MATH1001	
Students can select their specialization after taking PET-1011	
Pre-requisitses for PET-3090: Completion of 90 credits	