

# DPC Undergraduate Programme Study Plan from 2019/2020 (for E5)

Year	Sem	APAC1001 College Physics	E5 English Elective	CISC1000 Information Technology Fundamentals and Practices	GELH1000 Chinese Language & Culture	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education	CPED1000 Residential College Experimental Learning
Year 1	Sem 1	APAC1001 College Physics	E5 English Elective	CISC1000 Information Technology Fundamentals and Practices	GELH1000 Chinese Language & Culture	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education	CPED1000 Residential College Experimental Learning
	Sem 2	APAC1003 Introduction to College Chemistry	APAC1000 Advanced Mathematics I	APAC1002 Electromagnetism and Physical Optics	CISC1001 Programming Science	CHLL1000 or PORT1000	GE on "Science & Technology"	CPED1001 Physical Education
Year 2	Sem 1	APAC2002 Modern Physics	APAC2000 Advanced Mathematics II	APAC2001 Analytical and Environmental Chemistry	Free Elective	GESB1000 Ethics, Values, Law and Society	CPED2000 Communication Skills & Leadership	
	Sem 2	APAC2003 Inorganic Chemistry	APAC2004 Quantum Physics	GEGA1000 Macao and Chinese Civilization	Free Elective			
Year 3	Sem 1	APAC3000 Materials Physics and Chemistry	APAC3001 Solid State Physics	APAC3002 Thermodynamics and Statistical Physics	General Education	Free Elective		
	Sem 2	APAC3005 Physical Chemistry	APAC3004 Optoelectronics	APAC3006 Semiconductor Physics	APAC3003 Materials Characterization	General Education		
Year 4	Sem 1	APAC4000 Research Project	General Education	Free Elective	Required Elective	Required Elective		
	Sem 2	APAC4000 Research Project	Required Elective	Required Elective				
Compulsory Major		Required Elective		Free Elective				
Language & Skill		General Education		Community & Peer Education				

**Required Elective Courses:**

- CISC1006 Probability and Statistics
- APAC3007 Low-dimensional Physics
- APAC3008 Nanochemistry
- APAC3009 Organic and Polymer Chemistry
- APAC3010 Thin Film Physics
- APAC4001 Electrochemistry
- APAC4002 Electrostatics
- APAC4003 Magnetic Properties of Materials
- APAC4004 Mathematical Methods in Physics (*Pre-requisite: GEST1004 Quantitative Reasoning for S&T*)
- APAC4005 Micro-/Nano-System
- APAC4007 Semiconductor Materials and Devices (*Pre-requisite: APAC3006 Semiconductor Physics or APAC3001 Solid State Physics*)
- APAC4008 Supramolecular Chemistry
- APAC4009 Theory and Modeling of Materials Properties
- APAC4010 Topics in Emerging Materials