



Study Schedules for the Chemistry and Criminal Evidence Program

Department of Chemistry – Specific Program - 136 Credit Hours

First Year													
First Semester							Second Semester						
No	Code	Name	Pre-req	Th	P.	C.	No	Code	Name	Pre-req	Th	P.	C.
1	Chm101	Principles of Inorganic Chemistry	-	2	3	3	1	Univ 104	Contemporary societal issues		1	-	1
2	Chm102	Principle of Organic Chemistry	-	2	3	3	2	Chm 103	Principle of Physical Chemistry		2	3	3
3	Phy 101	Introductory Physics for the Life Sciences	-	2	2	3	3	Chm 111	Analytical chemistry (Volumetric, Electrochemical analysis - Chromatographic Separation Techniques)		2	3	3
4	Unv 101	Computer Science	-	1	2	2	4	BPh 102	Molecular Biophysics		2	-	2
5	Unv 102	English Language	-	1	2	2	5	CrE 152	Introduction to criminal chemistry		2	-	2
6	Unv 103	Laboratory Safety and Techniques	-	1	-	1	6	CrE 153	Preventive policy and prevention of crime		2	-	2
7	Mat 101	Mathematical Discovery	-	2	-	2	7	CrE 154	Introduction of Cytology, Histology and Genetics		2	2	3
8	CrE 151	Introduction to criminal science	-	2	-	2	8	BCh 171	Introduction to Biochemistry		2	-	2
Semester total credit hrs.				13	5	18	Semester total credit hrs.				15	3	18
Level total credit hrs.											28	8	36



Second Year

Third Semester							Fourth Semester						
No	Code	Name	Pre-req	Th	P.	C.	No	Code	Name	Pre-req	Th	P.	C.
1	CrE 251	criminal Toxicology		2	3	3	1	CrE 257	Introduction to virology		2	-	2
2	CrE 252	Introduction to Criminal Investigations		2	-	2	2	CrE 258	Analytical methods in criminal chemistry-I		2	-	2
3	CrE 253	criminal botany		2	-	2	3	CrE 259	Introduction of Physiology		2	-	2
4	CrE 254	criminal DNA Profiling and Genetic information criminal DNA Profiling		2	3	3	4	CrE 2510	Fundamentals in Immunology		2	-	2
5	CrE 255	Physical aspects of criminal science -1		2	-	2	5	Com 241	Computer Architecture and Assembly Language		1	2	2
6	Chm 231	Dyes and fibers Chemistry – Polymer Chemistry		2	-	2	6	Chm 243	Surface chemistry and Colloidal chemistry		2	3	3
7	Chm 241	Chemical Thermodynamics		2	-	2	7	Chm 211	Methods of instrumental Analysis		2	3	3
8	CrE 256	Advances in Molecular Medicine		2	-	2	8	CrE 2511	Laboratory quality control and assurance				
9	Chm 242	Chemical kinetics and Electrochemistry		2	-		9	ACh 261	Pharmaceutical Chemistry		2	-	2
Semester total credit hrs.				16	2	18	Semester total credit hrs.				15	3	18
Level total credit hrs.											31	5	36



Third Year

Fifth Semester							Sixth Semester						
No	Code	Name	Pre-req	Th	P.	C.	No	Code	Name	Pre-req	Th	P.	C.
1	CrE 351	Chemical and physical techniques used in securing documents against forgery and detect forged documents	CrE 151	1	3	2	1	CrE 357	Chemical analyzes of organic and inorganic toxins in forensic laboratories	Chm 111	2	3	3
2	CrE 352	Crime Scene Investigation- I	-	2	-	2	2	CrE 358	Stem Cell Biology	BCh 171	2	-	2
3	CrE 353	Chemical analyzes of narcotics in forensic laboratories	Chm 111	1	3	2	3	CrE 359	Trace Evidence Analysis in criminal investigations	CrE 151	2	-	2
4	CrE 354	Body fluids and Biological criminal Functions	BCh171	2	-	2	4	CrE 3510	Analytical methods in criminal chemistry - II	Chm111	2	3	3
5	CrE 355	Introduction to Medical Microbiology and Microbial Toxins	-	2	-	2	5	Chm. 332	Natural Products and Spectroscopy of Organic compounds	Chm 102	2	-	2
6	Com 341	Software Engineering	Univ 101	1	2	2	6	Unv 301	Communication and Presentation	-	1	-	1
7	Chm 331	Synthesis Chemistry– heterocyclic chemistry	Chm 102	2	3	3	7	Unv 302	Marketing and feasibility study	-	1	-	-
8	CrE 356	Food Safety and Genetically Modified Foods	-	2	-	2	8	CrE 3511	Risk Analysis and Loss Prevention	-	2	-	2
9	Chm 341	Catalysis and Nanochemistry	Chm 103	2	-	-	9	CrE 3512	Drug Metabolism	-	2	-	-
<i>Semester total credit hrs.</i>				13	4	17	<i>Semester total credit hrs.</i>				13	2	15
<i>Level total credit hrs.</i>											26	6	32



Fourth Year

Seventh Semester							eighth Semester						
No	Code	Name	Pre-req	Th	P.	C.	No	Code	Name	Pre-req	Th	P.	C.
1	CrE 451	Chemical analysis of explosive materials, fuel materials and fire accelerators	Chm 111	2	3	3	1	CrE 457	Analytical methods of criminal chemistry – III	Chm 111	2	3	3
2	CrE 452	Crime Scene Investigation II	-	2	-	2	2	CrE 458	Introduction to hematology and serums	-	2	-	2
3	CrE 453	Molecular Biology	-	2	-	2	3	CrE 459	Criminal Biotechnology and its applications	BCh 171	2	3	3
4	CrE 454	Physics for Criminal Science-II	-	2	3	3	4	CrE 4510	Biological Aspects of criminal Science	-	2	3	3
5	CrE 455	Research project	CrE 151	1	2	2	5	BCh 471	Clinical biochemistry	BCh 171	2	-	2
6	Sta 431	Statistics and criminal applications	Mat 101	2	-	2	6	BCh 472	Genome Integrity and Human Disease	-	2	-	2
7	Unv 401	The origins of scientific research	-	1	-	1	7	CrE 4511	Bioethics and Safety	-	2	-	
8	Unv 402	Introduction to Criminal Law	-	1	-								
9	CrE 456	Environmental Issus's and environmental toxicants	-	2	-	2							
10	Com 441	Criminal Computer: Investigation, Data Gathering and Evidence Analysis	Com 241	2	-								
Semester total credit hrs.				14	3	17	Semester total credit hrs..				12	3	15
Level total credit hrs											26	6	32