**SUMMARY OF FHEQ LEVEL 4 (YEAR 1) STUDIES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Code and Title** | **Credit Value** | **MChem/BSc Chemistry** | **MChem/BSc Medicinal** | **MChem/BSc Forensic INvestigation** |
| **Semester 1 Modules** |
| CHE1040 Maths, Computing and Statistical Skills | 15 | ■ | ■ | ■ |
| CHE1042 Periodicity and Reactivity of the Elements | 15 | ■ | ■ | ■ |
| CHE1044 Principles of Analytical Chemistry | 15 | ■ | ■ | ■ |
| CHE1039 Fundamentals of Forensic Science: from Crime Scene to Court | 15 | **⭘** | **-** | ■ |
| CHE1046 Data Analysis | 15 | **⭘** | **-** | **-** |
| BMS1025 Cell Biology | 15 | **-** | ■ | **-** |
| **Semester 1 Compulsory Credits** | | **45** | **60** | **60** |
| **Semester 1 Optional Credits** | | **15** | **0** | **0** |
|  |  |  |  |  |
| **Semester 2 Modules** |  |  |  |  |
| CHE1041 Organic Structure, Reactivity and Functional Groups | 15 | ■ | ■ | ■ |
| CHE1043 Physical Processes in Chemistry | 15 | ■ | ■ | ■ |
| CHE1045 Transferable Skills | 15 | ■ | ■ | ■ |
| CHE1047 Industrial and Environmental Chemistry | 15 | ■ | **-** | ■ |
| BMS1032 Introduction to Principles of Physiology and Practical Skills | 15 | **-** | ■ | **-** |
| **Semester 2 Compulsory Credits** | | **60** | **60** | **60** |
| **Semester 2 Optional Credits** | | **0** | **0** | **0** |

|  |
| --- |
| Key;  ■ = Compulsory Module  **⭘** = Optional Module  **-** = Module not available |

**SUMMARY OF FHEQ LEVEL 5 (YEAR 2) STUDIES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Code and Title** | **Credit Value** | **MChem/BSc Chemistry** | **MChem/BSc Medicinal** | **MChem/BSc Forensic INvestigation** |
| **Semester 1 Modules** |
| CHE2044 Organic carbon-carbon Bond Formation and Heterocyclic Chemistry | 15 | ■ | ■ | ■ |
| CHE2036 Applied Organic Spectroscopy | 15 | ■ | ■ | ■ |
| CHE2038 Materials Chemistry: Fundamentals to Application | 15 | ■ | ■ | ■ |
| CHE2035 Advances in Analytical Instrumentation | 15 | ■ | ■ | ■ |
| **Semester 1 Compulsory Credits** | | **60** | **60** | **60** |
| **Semester 1 Optional Credits** | | **0** | **0** | **0** |
|  |  |  |  |  |
| **Semester 2 Modules** |  |  |  |  |
| CHE2040 Phases, colloids and electronic transitions | 15 | ■ | ■ | ■ |
| CHE2037 Bioorganic Chemistry and Drug Discovery | 15 | **⭘** | ■ | **⭘** |
| CHE2042 Structure, Bonding and Reactions of Inorganic Compounds | 15 | ■ | ■ | ■ |
| CHE2043 Computer Modelling in Chemistry | 15 | **⭘** | **⭘** | **⭘** |
| CHE2033 Forensic Chemistry | 15 | **⭘** | **-** | ■ |
| CHE2041 Principles of Radiochemistry | 15 | **⭘** | **-** | **⭘** |
| BMS2047 Pharmacology: Introduction to Drug Action | 15 | **-** | **⭘** | **-** |
| **Semester 2 Compulsory Credits** | | **30** | **45** | **45** |
| **Semester 2 Optional Credits** | | **30** | **15** | **15** |

|  |
| --- |
| Key;  ■ = Compulsory Module  **⭘** = Optional Module  **-** = Module not available |

**SUMMARY OF THE BSc PROFESSIONAL TRAINING YEAR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Code and Title** | **Credit Value** | **MChem/BSc Chemistry** | **MChem/BSc Medicinal** | **MChem/BSc Forensic INvestigation** |
| **Across Academic Year** |
| CHEP007 Professional Training Year Module (Full-Year Work) | 120 | ■ | ■ | ■ |
|  |  |  |  |  |

**SUMMARY OF FHEQ LEVEL 6 (YEAR 3) STUDIES**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | |  | **MChem** | | |  | **BSc** | | |
| **Module Code and Title** | | | | | **Credit Value** | **Chemistry** | **Medicinal** | **Forensic Investigation** |  | **Chemistry** | **Medicinal** | **Forensic Investigation** |
| **Semester 1 Modules** | | | | |  |
| CHE3061 Organic Synthesis and Spectroscopy | | | | | 15 | - | - | - |  | ■ | ■ | **⭘\*\*** |
| CHE3063 Organometallic Chemistry, Molecular Symmetry and Inorganic Electronics | | | | | 15 | - | - | - |  | ■ | **⭘\*\*** | **⭘\*\*** |
| CHE3053 Topics in Computer Modelling | | | | | 15 | - | - | - |  | **⭘** | **⭘\*** | **⭘\*** |
| CHE3055 Topics in Forensics Chemistry | | | | | 15 | **-** | **-** | **-** |  | **⭘** | **-** | **■** |
| BMS3055 Advanced Pharmacology – selected topics in Drug Action | | | | | 15 | **-** | **-** | **-** |  | **-** | **⭘\*** | **-** |
| CHE3047 BSc Research Project$ | | | | | 45 | - | - | - |  | ■ | ■ | ■ |
| CHE3039 Spectroscopic Analysis of Organic Compounds (DL) | | | | | 15 | ■ | ■ | ■ |  | - | - | - |
| CHE3068 Industrial or Academic Research Training (DL)$ | | | | | 75 | ■ | ■ | ■ |  | **-** | - | **-** |
|  | | | | |  |  |  |  |  |  |  |  |
| **Semester 2 Modules** | | | | |  |  |  |  |  |  |  |  |
| CHE3065 Polymer Chemistry, Engineering and Technology | | | | | 15 | **-** | **-** | **-** |  | **⭘** | **-** | **-** |
| CHE3067 Modern Methods in Physical Chemistry | | | | | 15 | **-** | **-** | **-** |  | **■** | **⭘\*\*** | **⭘\*\*** |
| CHE3062 Medicinal Chemistry | | | | | 15 | **-** | **-** | **-** |  | **⭘** | **■** | **⭘\*** |
| CHE3066 Method Development and Applications in Analytical Chemistry | | | | | 15 | - | - | - |  | **⭘** | **⭘\*\*** | **■** |
| CHE3047 BSc Research Project$ | | | | | 45 | **-** | **-** | **-** |  | **■** | **■** | **■** |
| CHE3064 Physical Chemistry of Semi-conducting Materials (DL) | | | | | 15 | **■** | **■** | **■** |  | **-** | **-** | **-** |
| CHE3068 Industrial or Academic Research Training (DL)$ | | | | | 75 | ■ | ■ | ■ |  | **-** | - | **-** |
| CHE3042 Structure and Spectroscopy in Inorganic Chemistry (DL) | | | | | 15 | **■** | **■** | **■** |  | **-** | **-** | **-** |
| **Compulsory Credits** | | | | | | **120** | **120** | **120** |  | **90** | **75** | **75** |
| **Optional Credits** | | | | | | **0** | **0** | **0** |  | **30** | **45** | **45** |
|  |  |  |  |  | | | | | | | | |
| Key;  $ = Module runs across both Semesters  (DL) = Distance Learning Module  ■ = Compulsory Module  **⭘** = Optional Module  - = Module not available  **⭘\*\*** TWO of these modules must be selected when available as an optional module  **⭘\*** ONE of these modules must be selected when available as an optional module | | | | | | | | | | | | |

**SUMMARY OF FHEQ LEVEL 7 (YEAR M) STUDIES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Module Code and Title** | | **Credit Value** | **MChem Chemistry** | **MChem Medicinal** | **MChem Forensic Investigation** |
| **Semester 1 Modules** | |
| CHEM036 Advanced Organic Synthesis | | 15 | ■ | ■ | **⭘** |
| CHEM029 MChem Research Project $ | | 60 | ■ | ■ | ■ |
| CHEM039 Applications of Organometallic Transition and Main Group Chemistry | | 15 | ■ | **⭘** | **⭘** |
| CHEM034 Advanced Methods in Forensic Investigation | | 15 | **⭘** | **-** | **■** |
|  | |  |  |  |  |
| **Semester 2 Modules** | |  |  |  |  |
| CHEM037 Advanced Medicinal Chemistry | | 15 | **⭘** | ■ | **-** |
| CHEM029 MChem Research Project $ | | 60 | ■ | ■ | ■ |
| CHEM038 Advanced Method Development and Research Applications of Analytical Chemistry | | 15 | **⭘** | **⭘** | ■ |
| CHEM040 Frontiers in Physical Chemistry | | 15 | ■ | **⭘** | **⭘** |
| **Compulsory Credits** | | | **105** | **90** | **90** |
| **Optional Credits** | | | **15** | **30** | **30** |
|  | | | | | |
|  | | | | | |
| Key;  $ = Module runs across both Semesters  ■ = Compulsory Module  **⭘** = Optional Module  - = Module not available |  | | | | |