| CHE 423<br>CHE 435<br>CHE 494<br>IPRO | Process Control<br>Process Design 1<br>IPRO Elective 2  | 3<br>3<br>3   |   | SELECT<br>SELECT<br>EXAM  | Technical Elective 2<br>Technical Elective 3<br>Fundamentals of Engineering<br>(Passing is not required)   | 3   |  |
|---------------------------------------|---|---|---|---|--|---|--|
| CHE 435<br>CHE 494                    | Process Design 1  | 3   |   | SELECT  | Technical Elective 3   |   |  |
| CHE 435                               |   |   |   |   |  |   |  |
| CHE 423                               |   |   |   | 0-1-0-  |  |   |  |
|                                       | Chemical Reaction Engineering   | 3   |   | CHE 496   | Process Design 2   | :   |  |
| CHE 418                               | Chemical & Biological   | 2   | 10  | CHE 406   | Transport Phenomena  | 3   |  |
|                                       | Total   | 16  |   |   | Total  | 1   |  |
|                                       |   |   |   | JELEUI  |  |   |  |
| CHE 351                               | Thermodynamics 1  | 3   |   | CHE 451<br>SELECT   | Thermodynamics 2<br>Technical Elective 1   |   |  |
| CHE 311                               | Foundations of Biological Science for Engineering   | 3   |   | CHE 433   | Theory   | ;   |  |
| CHE 302                               | Heat & Mass Transfer Operations   | 3   |   | CHE 317   | Chemical & Biological<br>Engineering Laboratory 1  | :   |  |
| ECE 218                               | Digital Systems   | 4   | 8   | CHE 239   | Mathematical and Computational Methods   | ;   |  |
|                                       | All courses below   | w this line   | e are based on  | completion at l   | IIT  |   |  |
|                                       | years 1 - 3 credit hours =  | 103   |   |   | 1004   | 1   |  |
|                                       | Total   | 17  |   |   | Total  | 1   |  |
| SELECT                                | Visual & Performing Arts (2 of 2)   | 2   |   | SELECT  | Thematic Core (3 of 3)   | 2   |  |
| SELECT                                | (online option)<br>Christian Thought  | 4   |   | SELECT  | Thematic Core (2 of 3)   | 4   |  |
| IIT CHE 202                           | Material Energy Balance   | 3   |   | ENGR 394  | Engineering Ethics Capstone  | 2   |  |
| MATH 333<br>CHEM 371                  | Differential Equations<br>Physical Chemistry I  | 4<br>4  | 6   | CHEM 372<br>IIT CHE 301   | Physical Chemistry II<br>Fluid Mechanics   |   |  |
|                                       | Total   | 18  |   |   | Total  | 1   |  |
| SELECT                                | · · · ·   | 4   |   | CORE 3xx  | Core tag)  |   |  |
| LANG                                  |   | 4   |   | SELECT  |  | 4   |  |
|                                       | Old Testament Literature  | 4   |   | BITH  |  | 2   |  |
| CHEM 341                              | Organic Chemistry I   | 4   |   | CHEM 342  | Organic Chemistry II   | 2   |  |
| PHYS 334                              | Computer Modeling of Physical   | 2   | 4   | MATH 237  | Calculus III   | 4   |  |
|                                       | Total   | 17  |   |   | Total  | 1   |  |
| CORE 101                              | First Year Seminar  | 4   |   | COMM  | Oral Communication (0-2)   | 2   |  |
| CHEM 231                              | General Chemistry I   | 4   |   | ENGW  | Writing (0-4)  |   |  |
|                                       |   |   |   |   |  |   |  |
| MATH 235                              | Calculus I  | 4   | 2   | MATH 236  | Calculus II  | 4   |  |
| Code                                  | Name  | Hrs.  | Sem   | Code  | Name   | Н   |  |
|                                       |   |   |   |   |  |   |  |
|                                       | Engineering Major   |   |   | Che   | emical Engineering   |   |  |
|                                       | PHYS 231<br>ENGR 101<br>CHEM 231<br>CORE 101<br>PHYS 334<br>CHEM 341<br>SELECT<br>LANG<br>SELECT<br>MATH 333<br>CHEM 371<br>IIT CHE 202<br>SELECT<br>SELECT<br>SELECT<br>SELECT<br>CHE 302<br>CHE 302<br>CHE 311<br>CHE 351<br>IPRO | General Education     Fall Semester     Code   Name     MATH 235   Calculus I     PHYS 231   Introductory Physics I     ENGR 101   Introduction to Engineering     CHEM 231   General Chemistry I     CORE 101   First Year Seminar     Tota/     PHYS 334   Computer Modeling of Physical Systems     CHEM 341   Organic Chemistry I     SELECT   Old Testament Literature     LANG   Foreign Language     SELECT   Thematic Core (1 of 3)     Tota/     MATH 333   Differential Equations     CHEM 371   Physical Chemistry I     IIT CHE 202   Material Energy Balance (online option)   SELECT     SELECT   Christian Thought   SELECT     Select   Visual & Performing Arts (2 of 2)     Tota/     years 1 - 3 credit hours =     All courses below     CHE 302   Heat & Mass Transfer Operations     CHE 302   Heat & Mass Transfer Operations   CHE 351     CHE 351   Thermodynamics 1 | General Education     Fall Semester     Code   Name   Hrs.     MATH 235   Calculus I   4   4     PHYS 231   Introductory Physics I   4   4     ENGR 101   Introduction to Engineering   1   7     CHEM 231   General Chemistry I   4   4     CORE 101   First Year Seminar   4     CORE 101   First Year Seminar   4     PHYS 334   Computer Modeling of Physical<br>Systems   2     CHEM 341   Organic Chemistry I   4     LANG   Foreign Language   4     SELECT   Thematic Core (1 of 3)   4     MATH 333   Differential Equations   4     CHE 311   Physical Chemistry I   4     MATH 333   Differential Equations   4     IIT CHE 202   Material Energy Balance<br>(online option)   3   3     SELECT   Christian Thought   4   4     SELECT   Visual & Performing Arts (2 of 2)   2   2     Total   17     years 1 - 3 credit | General Education     Fall Semester     Code   Name   Hrs.   Sem     MATH 235   Calculus I   4   4   2     PHYS 231   Introductory Physics I   4   2     CMEM 101   Introduction to Engineering   1   4     CNE 101   First Year Seminar   4   2     CORE 101   First Year Seminar   4   4     CHEM 341   Organic Chemistry I   4   4     SELECT   Old Testament Literature   4   4     MATH 333   Differential Equations   4   6     MATH 333   Differential Energy Balance   3   3     MATH 333   Differential Energy Balance   3   6     MATH 333   Differential Energy Balance   3   8     CHE 302   Heat & Mass Transfer Operations   3   6     CHE 302 <td>Engineering Major<br/>General Education     Fall Semester     Code   Name   Hrs.   Sem   Code     MATH 235   Calculus I   4   4   PHYS 231   Introductory Physics I   4   2   MATH 236   PHYS 232   CHEM 231   General Chemistry I   4   2   MATH 236   PHYS 232   CHEM 231   General Chemistry I   4   COMM     Computer Modeling of Physical<br/>Systems   2   4   MATH 237   CHEM 341   Organic Chemistry I   4   MATH 237   CHEM 341   Organic Chemistry I   4   MATH 237   CHEM 341   Organic Chemistry I   4   SELECT   Old Testament Literature   4   MATH 237   CHEM 342   BITH   SELECT   SELECT   Total   18   CORE 3xx     Total   18   6   CHEM 372   IIT CHE 301   ENGR 394   SELECT   SELECT   Visual &amp; Performing Arts (2 of 2)   2   IIT CHE 302   ENGR 394   SELECT   SELECT   SELECT   Select 317   CHE 302   Heat &amp; Mass Transfer Operations   3   CHE 317   CHE 317   CHE 317<td>Chemical Education   Chemical Engineering   Spring Semester   Code Name   MATH 235 Calculus I   PHYS 231 Introductory Physics I   Introductory Physics I   Code Name   Computer Modeling of Physical 2   Total 18   Computer Modeling of Physical 2   Colspan= Chemistry I   <th cols<="" td=""></th></td></td> | Engineering Major<br>General Education     Fall Semester     Code   Name   Hrs.   Sem   Code     MATH 235   Calculus I   4   4   PHYS 231   Introductory Physics I   4   2   MATH 236   PHYS 232   CHEM 231   General Chemistry I   4   2   MATH 236   PHYS 232   CHEM 231   General Chemistry I   4   COMM     Computer Modeling of Physical<br>Systems   2   4   MATH 237   CHEM 341   Organic Chemistry I   4   MATH 237   CHEM 341   Organic Chemistry I   4   MATH 237   CHEM 341   Organic Chemistry I   4   SELECT   Old Testament Literature   4   MATH 237   CHEM 342   BITH   SELECT   SELECT   Total   18   CORE 3xx     Total   18   6   CHEM 372   IIT CHE 301   ENGR 394   SELECT   SELECT   Visual & Performing Arts (2 of 2)   2   IIT CHE 302   ENGR 394   SELECT   SELECT   SELECT   Select 317   CHE 302   Heat & Mass Transfer Operations   3   CHE 317   CHE 317   CHE 317 <td>Chemical Education   Chemical Engineering   Spring Semester   Code Name   MATH 235 Calculus I   PHYS 231 Introductory Physics I   Introductory Physics I   Code Name   Computer Modeling of Physical 2   Total 18   Computer Modeling of Physical 2   Colspan= Chemistry I   <th cols<="" td=""></th></td> | Chemical Education   Chemical Engineering   Spring Semester   Code Name   MATH 235 Calculus I   PHYS 231 Introductory Physics I   Introductory Physics I   Code Name   Computer Modeling of Physical 2   Total 18   Computer Modeling of Physical 2   Colspan= Chemistry I <th cols<="" td=""></th> |  |

years 4 - 5 credit hours = 56 TOTAL credit hours = 159

last updated 8/21/2023

