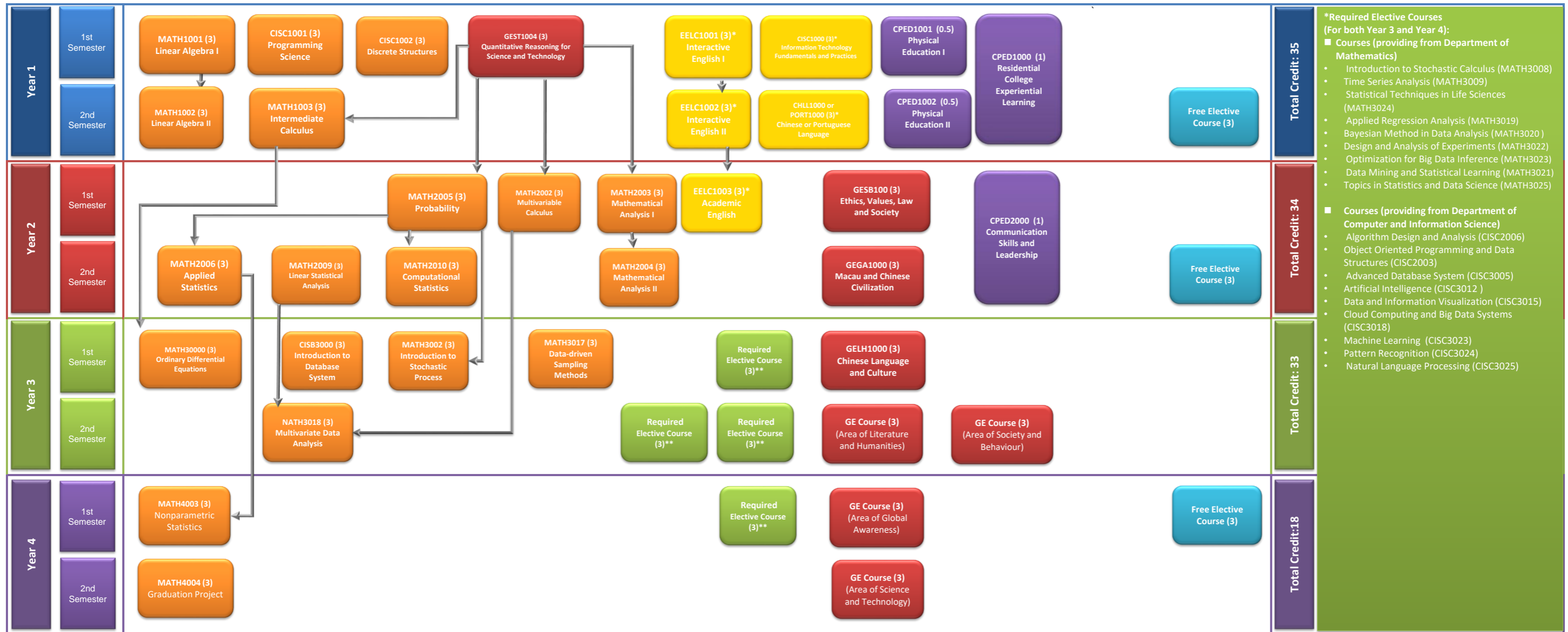


### Statistics and Data Science Stream (From 2019/2020)



- \*Required Elective Courses (For both Year 3 and Year 4):**
- Courses (providing from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Data Mining and Statistical Learning (MATH3021)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (providing from Department of Computer and Information Science)
    - Algorithm Design and Analysis (CISC2006)
    - Object Oriented Programming and Data Structures (CISC2003)
    - Advanced Database System (CISC3005)
    - Artificial Intelligence (CISC3012)
    - Data and Information Visualization (CISC3015)
    - Cloud Computing and Big Data Systems (CISC3018)
    - Machine Learning (CISC3023)
    - Pattern Recognition (CISC3024)
    - Natural Language Processing (CISC3025)

Compulsory Course	General Education Course	Mathematics Elective Course	Free Elective Course	Community and Peer Education Course	Languages and Skills Course
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**Remark:**  
 \* Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s).