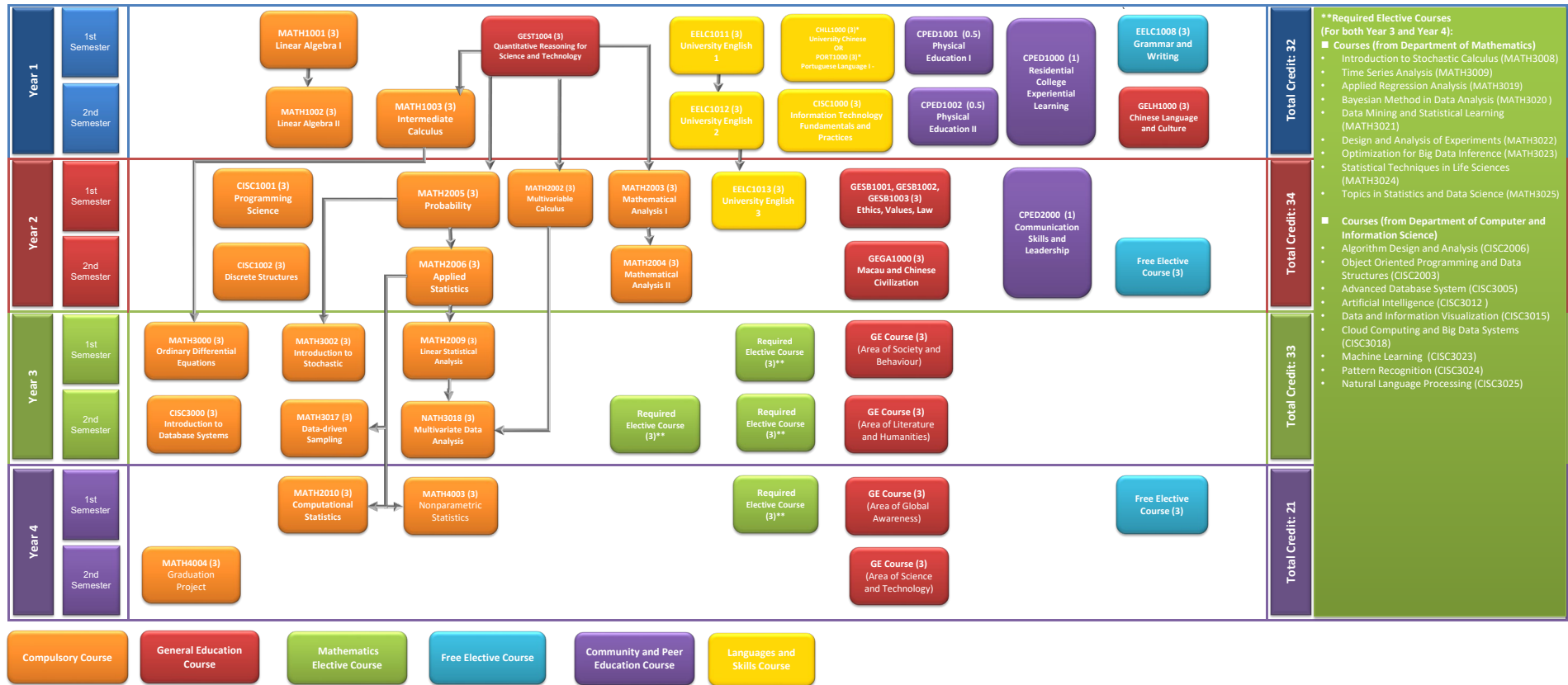


Statistics and Data Science Stream (SDS19, E1a)

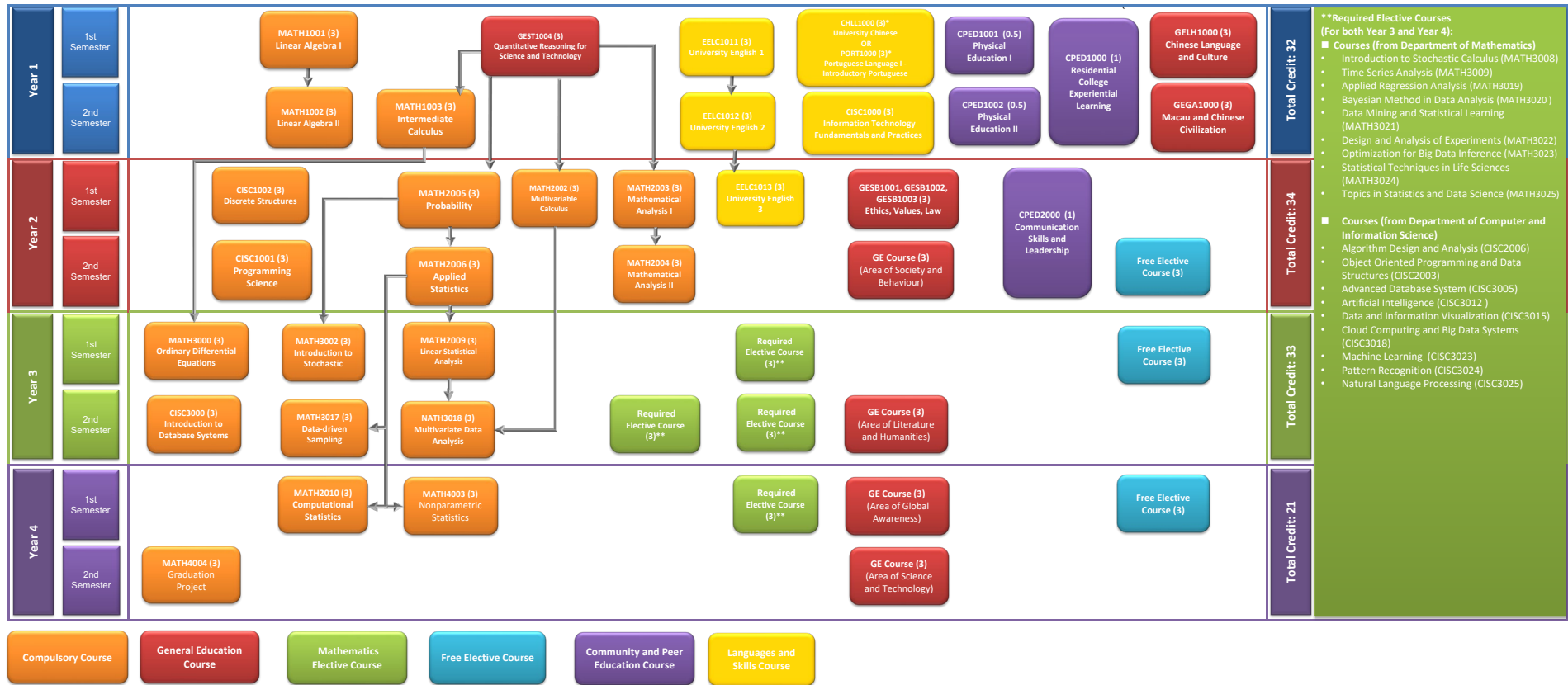


- \*\* Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)**
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**Remark:**

\* Students who test out this course should take GEGA1000 in this semester. They are required to make up the credits by taking additional Free Elective(s) later.

Statistics and Data Science Stream (SDS19, E1b)

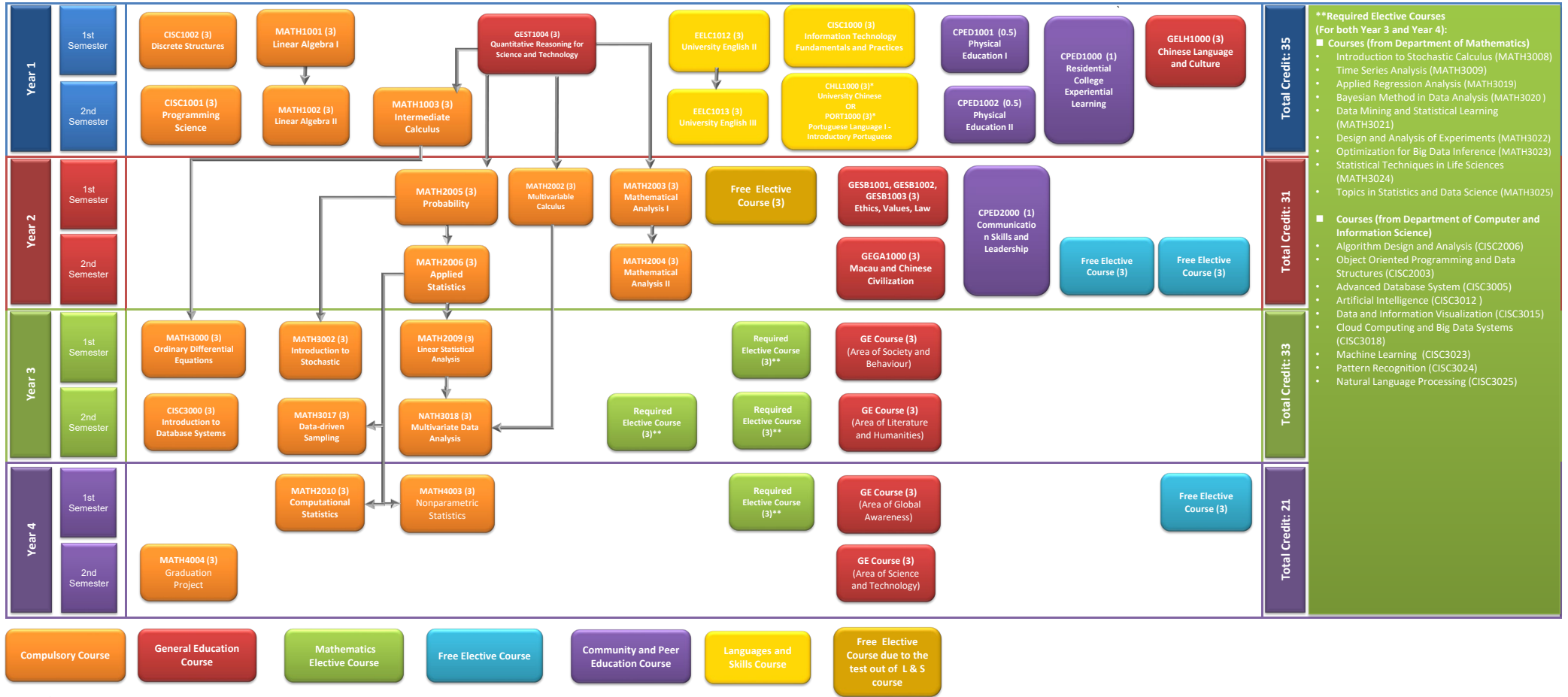


- \*\* Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**Remark:**

\* Students who test out this course should take GEGA1000 in this semester. They are required to make up the credits by taking additional Free Elective(s) later.

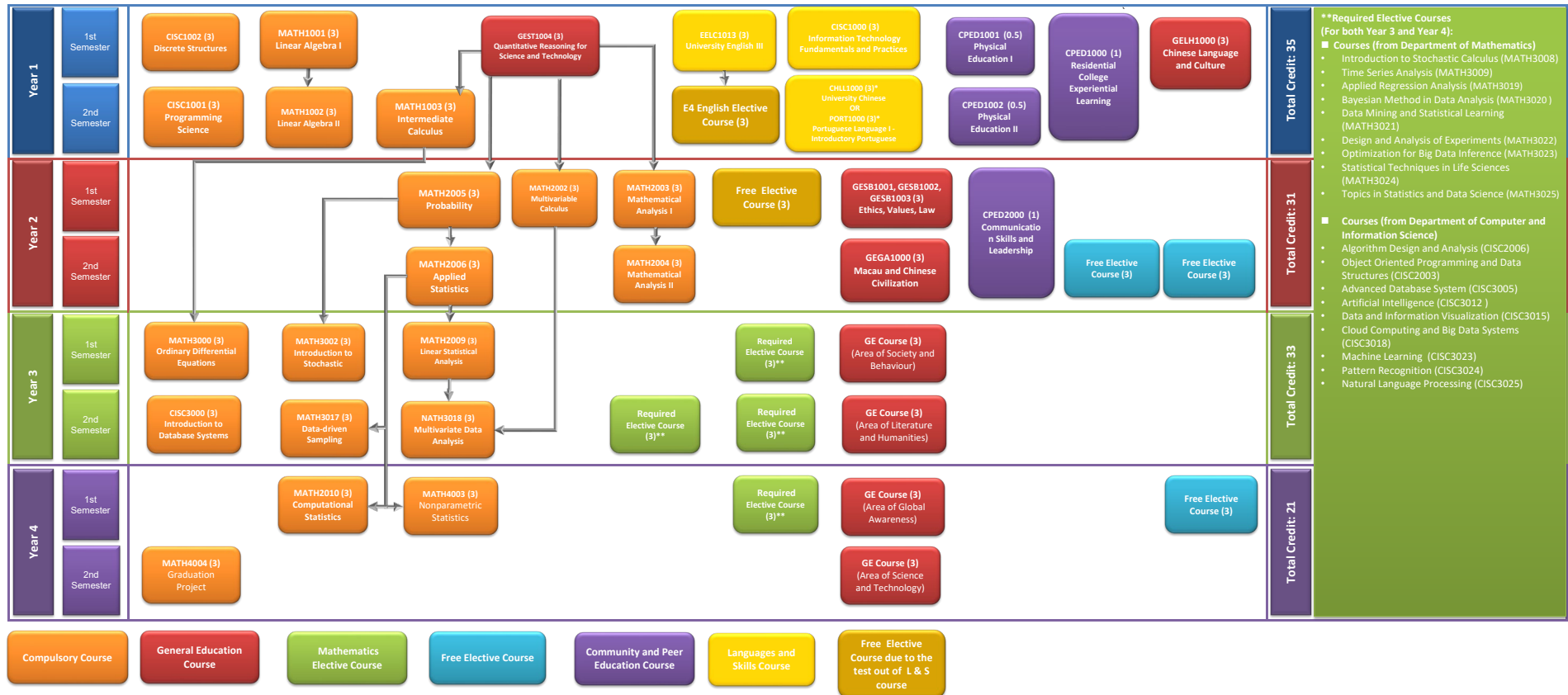
**Statistics and Data Science Stream (SDS19, E2)**



- \*\*Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**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).

**Statistics and Data Science Stream (SDS19, E3)**

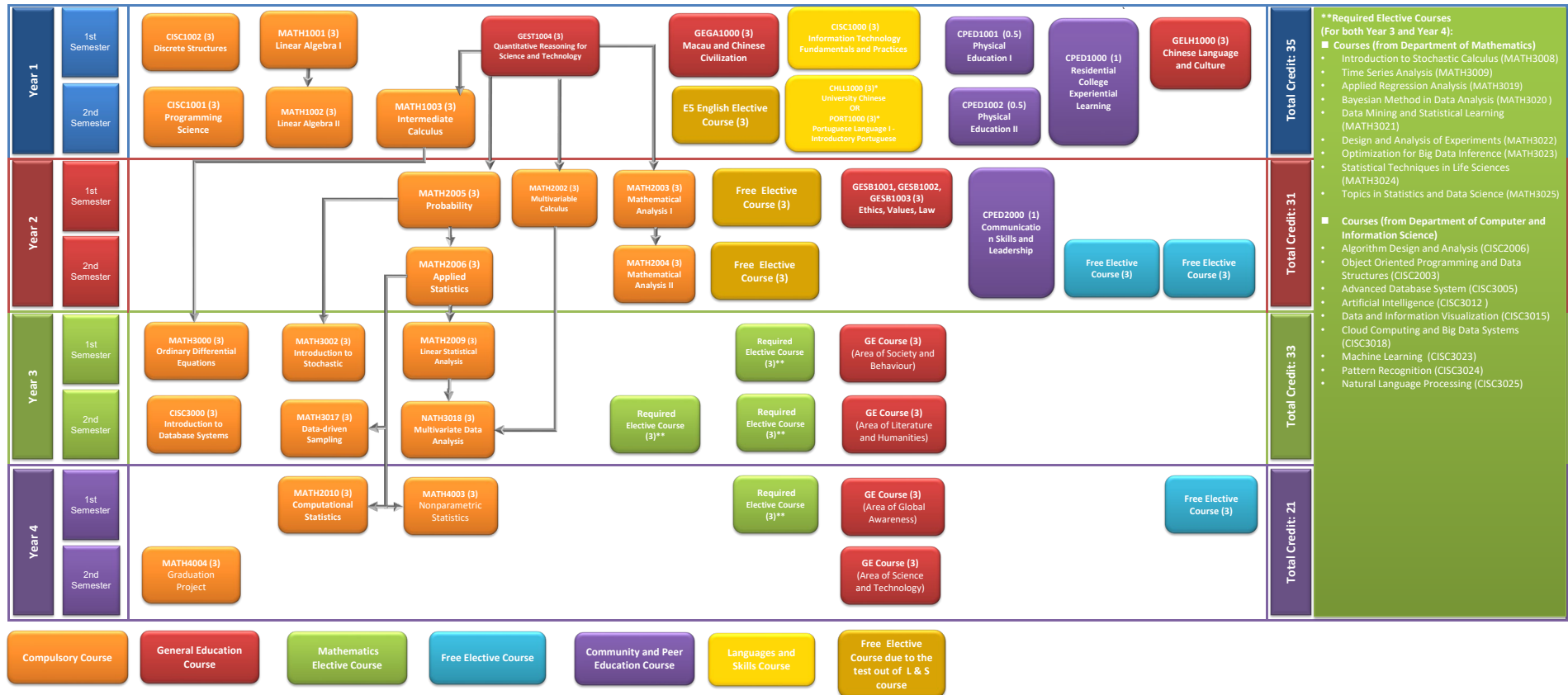


- \*\* Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**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).

**Statistics and Data Science Stream (SDS19, E5)**

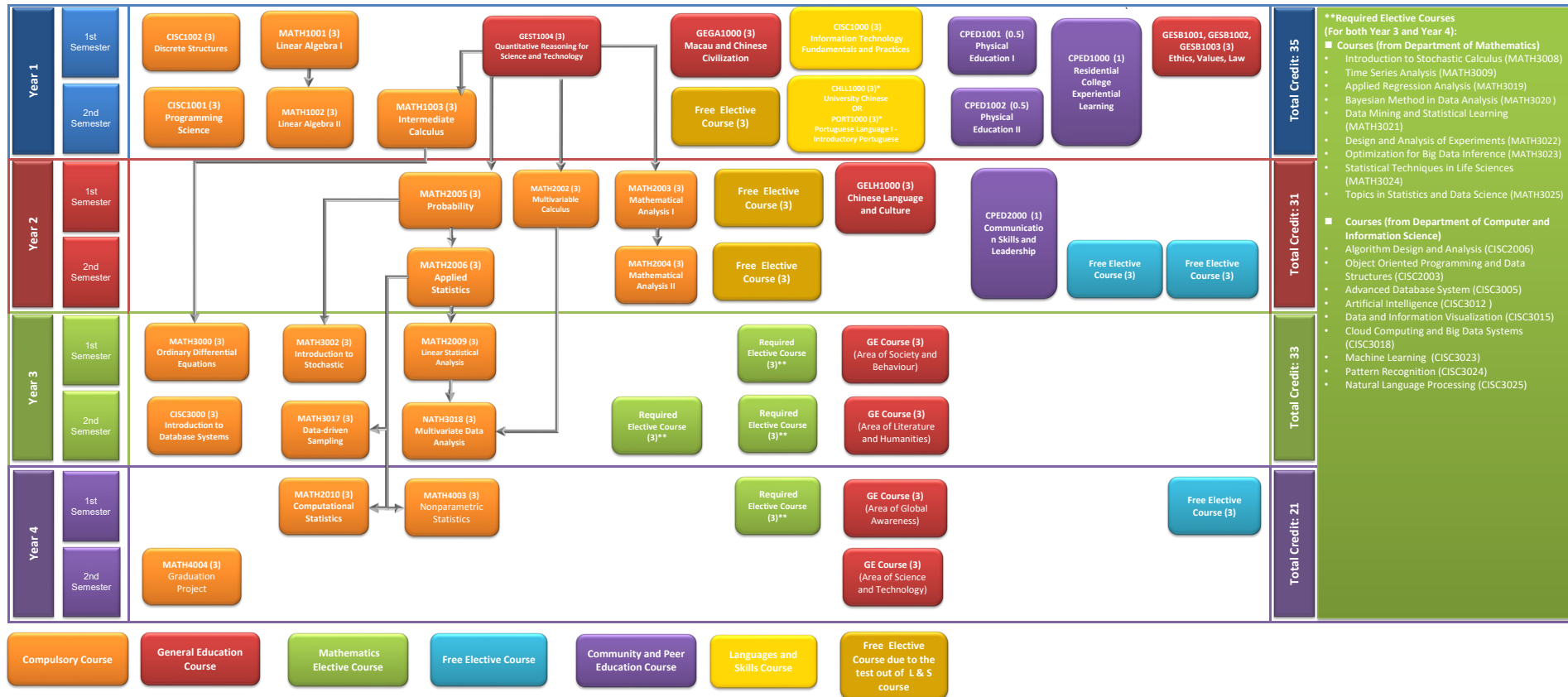


- \*\* Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**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).

Statistics and Data Science Stream (SDS19, EngCW)



- \*\* Required Elective Courses (For both Year 3 and Year 4):**
- Courses (from Department of Mathematics)
    - Introduction to Stochastic Calculus (MATH3008)
    - Time Series Analysis (MATH3009)
    - Applied Regression Analysis (MATH3019)
    - Bayesian Method in Data Analysis (MATH3020)
    - Data Mining and Statistical Learning (MATH3021)
    - Design and Analysis of Experiments (MATH3022)
    - Optimization for Big Data Inference (MATH3023)
    - Statistical Techniques in Life Sciences (MATH3024)
    - Topics in Statistics and Data Science (MATH3025)
  - Courses (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)

**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).