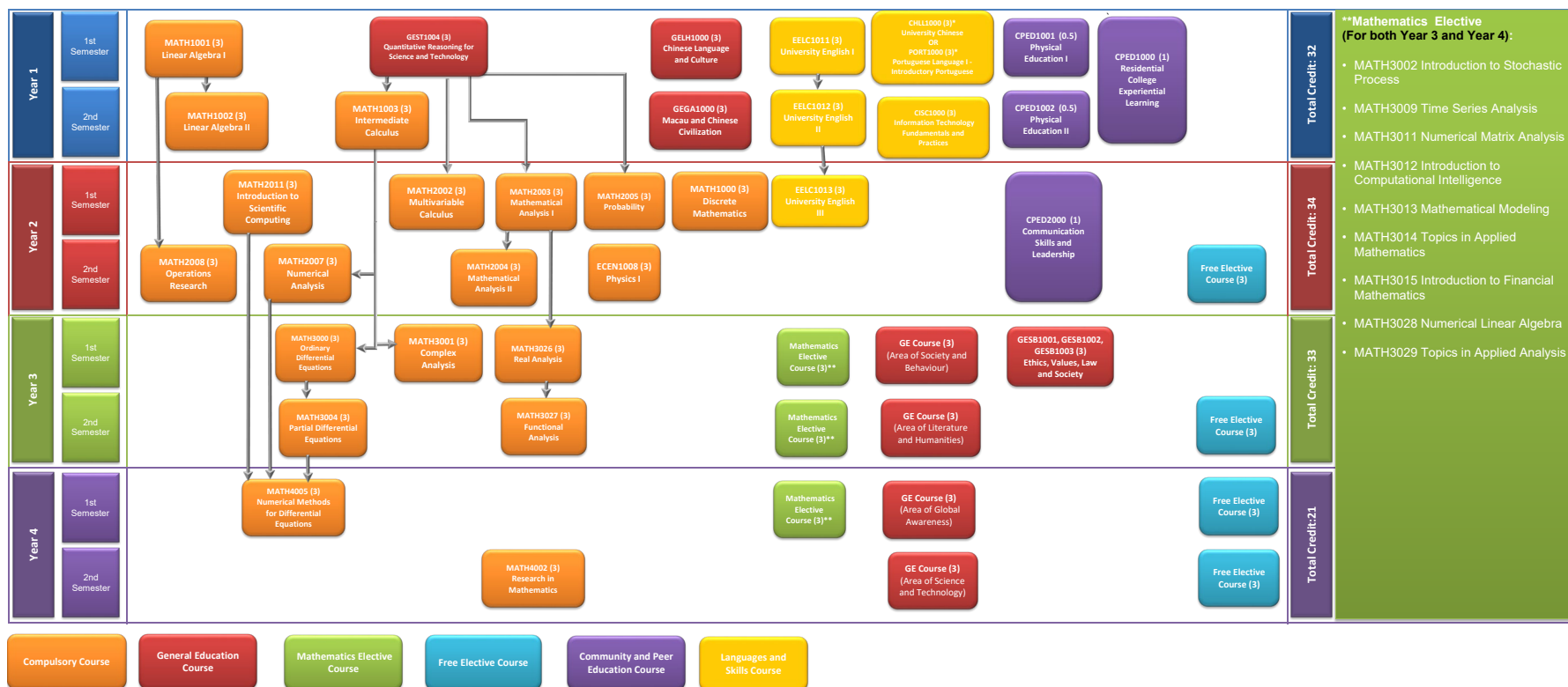


Year 1		Year 2		Year 3		Year 4		Total Credit	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	32	**Mathematics Elective (For both Year 3 and Year 4): <ul style="list-style-type: none"> MATH3002 Introduction to Stochastic Process MATH3009 Time Series Analysis MATH3011 Numerical Matrix Analysis MATH3012 Introduction to Computational Intelligence MATH3013 Mathematical Modeling MATH3014 Topics in Applied Mathematics MATH3015 Introduction to Financial Mathematics MATH3028 Numerical Linear Algebra MATH3029 Topics in Applied Analysis
MATH1001 (3) Linear Algebra I MATH1002 (3) Linear Algebra II GEST1004 (3) Quantitative Reasoning for Science and Technology MATH1003 (3) Intermediate Calculus EELC1011 (3) University English I CHLL1000 (3)* University Chinese OR PORT1000 (3)* Portuguese Language I - Introductory Portuguese CPED1001 (0.5) Physical Education I CPED1000 (1) Residential College Experiential Learning EELC1008 (3) Grammar and Writing Improvement I		MATH2011 (3) Introduction to Scientific Computing MATH2008 (3) Operations Research MATH2007 (3) Numerical Analysis MATH2002 (3) Multivariable Calculus MATH2003 (3) Mathematical Analysis I MATH2005 (3) Probability MATH1000 (3) Discrete Mathematics EELC1012 (3) University English II CISC1000 (3) Information Technology Fundamentals and Practices CPED1002 (0.5) Physical Education II GELH1000 (3) Chinese Language and Culture		MATH3000 (3) Ordinary Differential Equations MATH3004 (3) Partial Differential Equations MATH3001 (3) Complex Analysis MATH3026 (3) Real Analysis MATH3027 (3) Functional Analysis MATH2004 (3) Mathematical Analysis II ECEN1008 (3) Physics I GEGA1000 (3) Macau and Chinese Civilization CPED2000 (1) Communication Skills and Leadership		MATH4005 (3) Numerical Methods for Differential Equations MATH4002 (3) Research in Mathematics Mathematics Elective Course (3)** GE Course (3) (Area of Society and Behaviour) GESB1001, GESB1002, GESB1003 (3) Ethics, Values, Law and Society Free Elective Course (3)		34	
								33	
								21	

* 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.

* 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.

Mathematics and Applications specialization (MAA23, E1b)

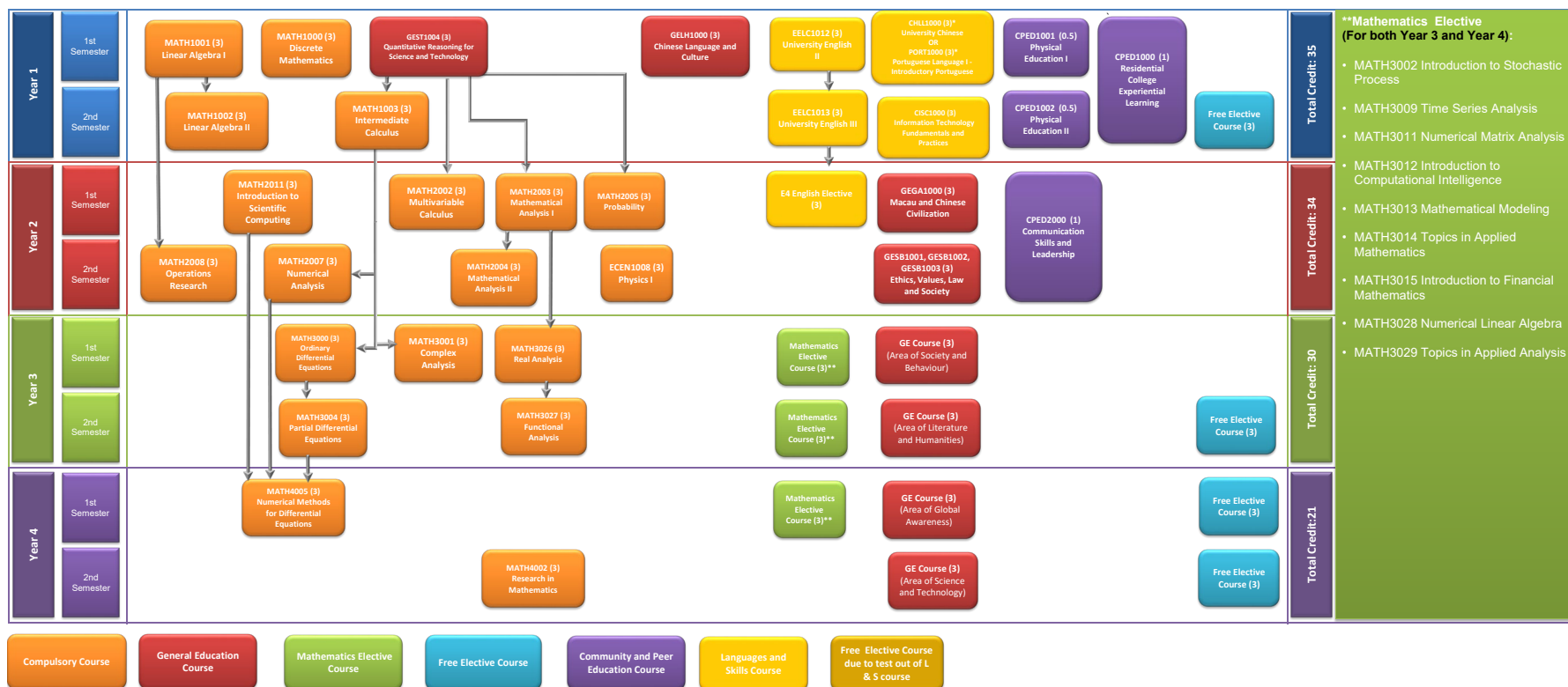


- **Mathematics Elective (For both Year 3 and Year 4):**
- MATH3002 Introduction to Stochastic Process
 - MATH3009 Time Series Analysis
 - MATH3011 Numerical Matrix Analysis
 - MATH3012 Introduction to Computational Intelligence
 - MATH3013 Mathematical Modeling
 - MATH3014 Topics in Applied Mathematics
 - MATH3015 Introduction to Financial Mathematics
 - MATH3028 Numerical Linear Algebra
 - MATH3029 Topics in Applied Analysis

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.

Mathematics and Applications specialization (MAA23, E2)

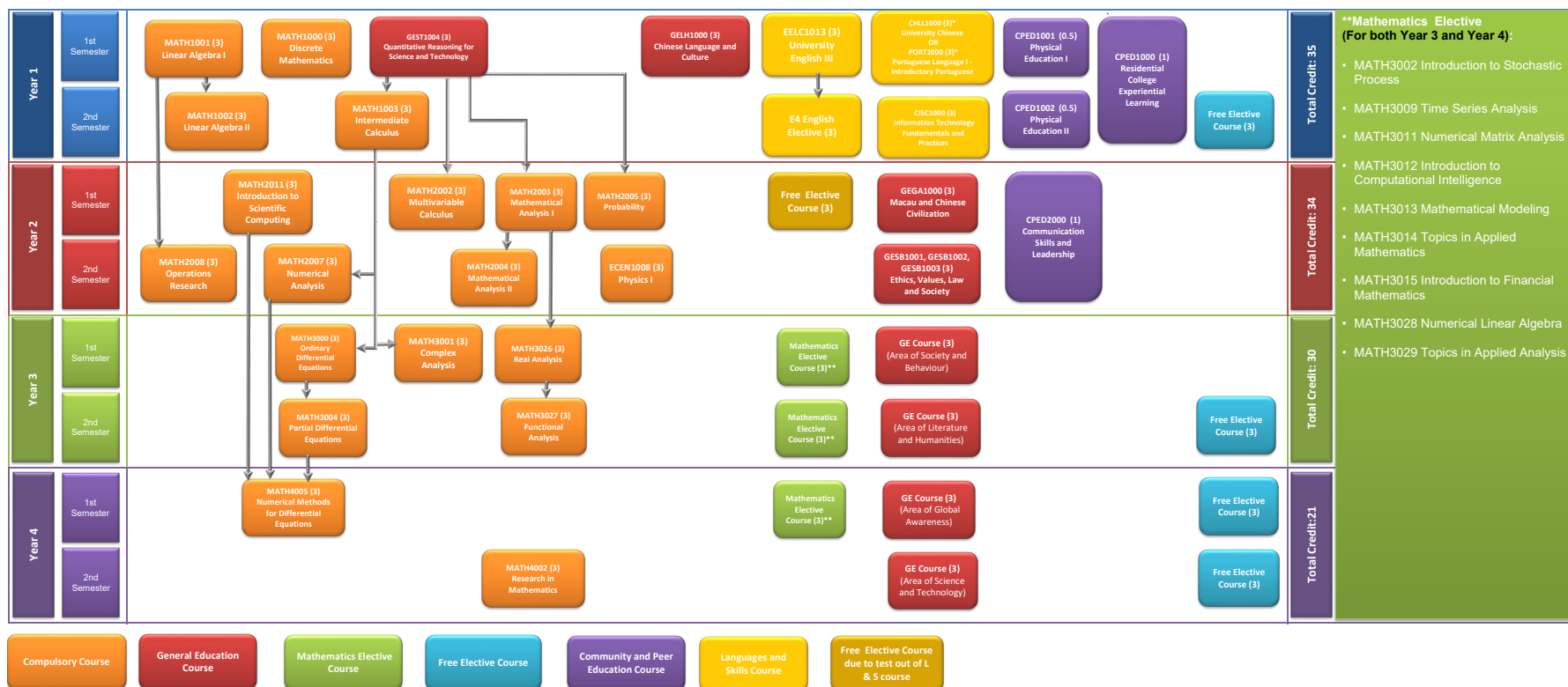


- **Mathematics Elective (For both Year 3 and Year 4):**
- MATH3002 Introduction to Stochastic Process
 - MATH3009 Time Series Analysis
 - MATH3011 Numerical Matrix Analysis
 - MATH3012 Introduction to Computational Intelligence
 - MATH3013 Mathematical Modeling
 - MATH3014 Topics in Applied Mathematics
 - MATH3015 Introduction to Financial Mathematics
 - MATH3028 Numerical Linear Algebra
 - MATH3029 Topics in Applied Analysis

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.

Mathematics and Applications specialization (MAA23, E3)

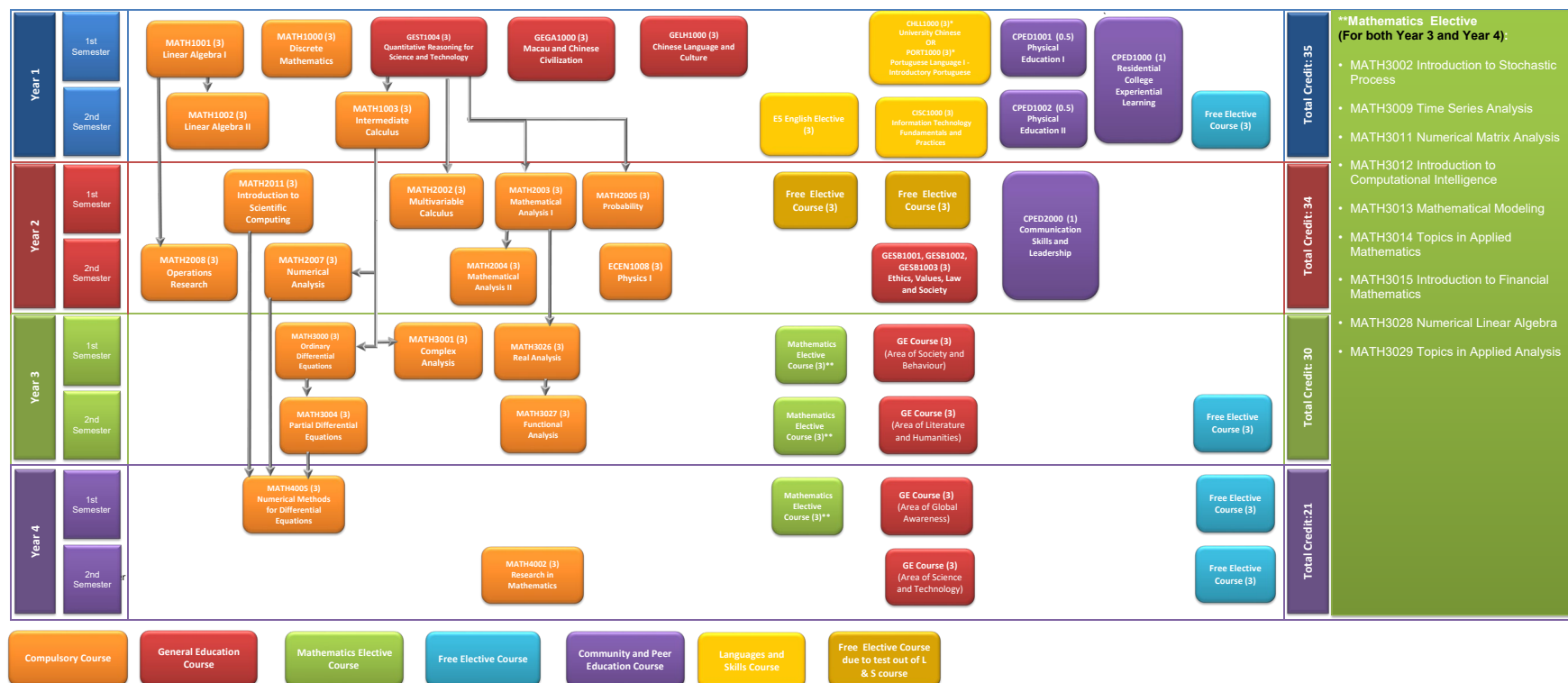


- **Mathematics Elective (For both Year 3 and Year 4):**
- MATH3002 Introduction to Stochastic Process
 - MATH3009 Time Series Analysis
 - MATH3011 Numerical Matrix Analysis
 - MATH3012 Introduction to Computational Intelligence
 - MATH3013 Mathematical Modeling
 - MATH3014 Topics in Applied Mathematics
 - MATH3015 Introduction to Financial Mathematics
 - MATH3028 Numerical Linear Algebra
 - MATH3029 Topics in Applied Analysis

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.

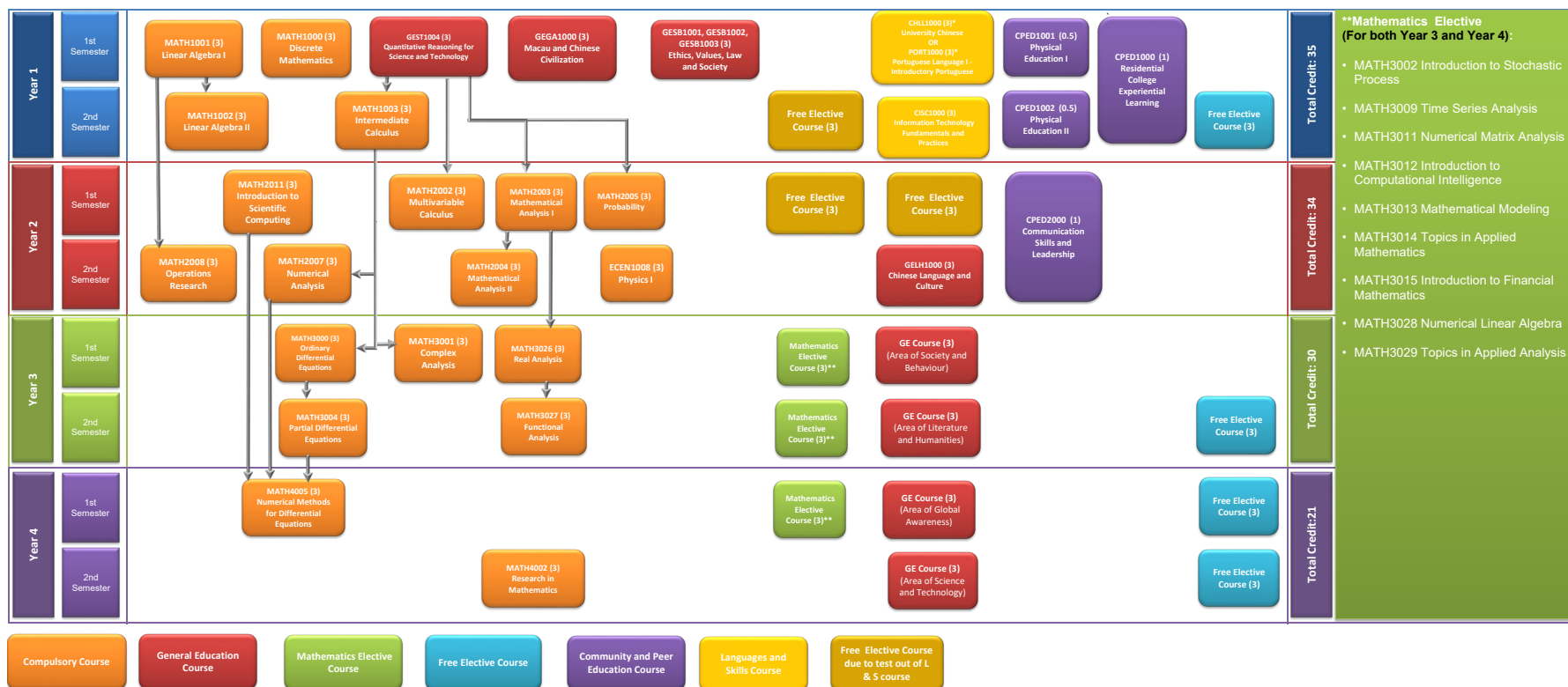
Mathematics and Applications specialization (MAA23, E5)



- **Mathematics Elective (For both Year 3 and Year 4):**
- MATH3002 Introduction to Stochastic Process
 - MATH3009 Time Series Analysis
 - MATH3011 Numerical Matrix Analysis
 - MATH3012 Introduction to Computational Intelligence
 - MATH3013 Mathematical Modeling
 - MATH3014 Topics in Applied Mathematics
 - MATH3015 Introduction to Financial Mathematics
 - MATH3028 Numerical Linear Algebra
 - MATH3029 Topics in Applied Analysis

Remark:
 * Students who test out this course should take GE1000 in this semester. They are required to make up the credits by taking additional Free Elective(s) later.

Mathematics and Applications specialization (MAA23, EngCW)



- **Mathematics Elective (For both Year 3 and Year 4):**
- MATH3002 Introduction to Stochastic Process
 - MATH3009 Time Series Analysis
 - MATH3011 Numerical Matrix Analysis
 - MATH3012 Introduction to Computational Intelligence
 - MATH3013 Mathematical Modeling
 - MATH3014 Topics in Applied Mathematics
 - MATH3015 Introduction to Financial Mathematics
 - MATH3028 Numerical Linear Algebra
 - MATH3029 Topics in Applied Analysis

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.