

## 教育學士學位課程 (數學專業)

### Study Plan of Bachelor of Education (Mathematics Major)

(Start academic year: 2008/2009)

#### 第一學年 1st Year

科目編號 Course Code	科目名稱	Course Title	學分 Credit	Flag
EDUC103	教育學導論	Introduction to Education	3	C
EDUC111/112	微積分 I/II	Calculus I/II	6	C
EDUC113/114	線性代數 I/II	Linear Algebra I/II	6	C
EDUC115	高等代數	Higher Algebra	3	C
EDUC116	幾何學	Geometry	3	C
EDUC117	學習科技與中學數學教學I：導論	Learning Technology for Mathematics Education in Secondary Schools I: Introduction	2	C
EDUC118	學習科技與中學數學教學II：應用與議題	Learning Technology for Mathematics Education in Secondary Schools II : Application & Issues	2	C
EDUC170	教育心理學	Educational Psychology	3	C
ENGL005/006	實用英語：學以致用 I/II	Practical English-Practice & Progress I/II	6	C
<b>下列語言至少選修一門：</b> <b>Required electives (A minimum of 1 language):</b>				
BJPN100/101	日語 I/II	Japanese I/II	3x2	R
CHIN108/109	普通話 I/II	Putonghua I/II		
PORT192/193	葡萄牙語 I/II	Portuguese Language I/II		

所需學分: 40

**Total number of credits: 40**

#### 第二學年 2nd Year

科目編號 Course Code	科目名稱	Course Title	學分 Credit	Flag
EDUC223	課程與教學論	Theories of Curriculum & Instruction	3	C
EDUC250/251	數學分析 I/II	Mathematical Analysis I/II	6	C
EDUC252	多元微積分	Multivariate Calculus	3	C
EDUC253	數值分析	Numerical Analysis	3	C
EDUC254/255	概率與統計 I/II	Probability and Statistics I/II	6	C

EDUC256/257	初等數學教學與研究 I/II	Elementary Mathematics Teaching & Research I/II	6	C
下列科目至少選修兩門，不得少於 5 學分： <b>Required electives (A minimum of 2 courses, total of at least 5 credits):</b>				
EDUC270	青少年心理	Psychology of Adolescents	3	R
EDUC271	青少年文化	Adolescent Culture	3	R
EDUC272	澳門社會專題研究	Research Topics in Macao Society	2	R
EDUC273	中國社會專題研究	Research Topics in Chinese Society	2	R

所需學分: 32

Total number of credits: 32

### 第三學年 3rdYear

科目編號 Course Code	科目名稱	Course Title	學分 Credit	Flag
EDUC336/337	學科教學法 I/II	Subject Based Teaching Methods I/II	6	C
EDUC350/351	抽象代數 I/II	Abstract Algebra I/II	6	C
EDUC352	數學分析 III	Mathematical Analysis III	3	C
EDUC353	常微分方程	Ordinary Differential Equations	3	C
EDUC354	複分析	Complex Analysis	3	C
EDUC360/361	普通物理 I/II	Physics I/II	8	C
EDUC370	學生輔導	Counseling and Guidance	3	C

第三學年的修讀大綱並沒有作出改變，所需學分: 32

No revision in the 4<sup>th</sup> year study plan, total number of credits: 32

### 第四學年 4thYear

科目編號 Course Code	科目名稱	Course Title	學分 Credit	Flag
EDUC408	教學實踐	Supervised Teaching & School Experience	6	C
EDUC461	物理實驗	Physics Laboratory	2	C
EDUC480	教育社會學	Sociology of Education	3	C
下列科目至少選修三門，不得少於 9 學分： <b>Required electives (A minimum of 3 courses, total of at least 9 credits):</b>				
EDUC442	運籌學	Operational Research	3x3	R
EDUC443	離散數學	Discrete Mathematics		
EDUC445	微分幾何	Differential Geometry		
EDUC446	偏微分方程	Partial Differential Equations		
EDUC447	實分析	Real Analysis		

EDUC448	拓樸學	Topology		
EDUC449	數學專題	Topics in Mathematics		
EDUC491	研討班	Seminar		
下列科目至少選修一門： <b>Required electives (A minimum of 1 courses):</b>				
EDUC405	教育行政	Educational Administration	3	R
EDUC409	教師倫理與教師專業發展	Teacher Ethics and Teacher Professional Development		
EDUC432	教育研究	Educational Research		
EDUC441	教育評鑑	Educational Evaluation		
EDUC481	特殊教育	Introduction to Special Education		

第四學年的修讀大綱並沒有作出改變，所需學分: 23

No revision in the 4<sup>th</sup> year study plan, total number of credits: 23

畢業所需總學分：144

Total number of credits required for graduation: 144

學生除須修讀課程計劃內所指定的 127 學分外，還須修讀副修課程科目或兩門學士學位數學專業科目 6 學分、教育學院學士學位課程科目 6 學分及自由選修其它學院之學士學位課程科目 5 學分。

127 credits for Chinese major plus 21 credits of a minor programme. Students opting for free electives instead of a minor programme are required to select two more B.Ed courses (6 credits), two more Bachelor-in-Mathematics courses (6 credits) and other free electives to fulfill the minimum of 144 credits for graduation.