

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 |
| 下列語言至少選修一門： Required electives (A minimum of 1 language): | | | | |
| 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 |

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|---|-------------------|--|---|---|
| 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： Required electives (A minimum of 2 courses, total of at least 5 credits): | | | | |
| 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 4th 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： Required electives (A minimum of 3 courses, total of at least 9 credits): | | | | |
| 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 | | |

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|--|-------------|---|---|---|
| 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： Required electives (A minimum of 1 courses): | | | | |
| 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 4th 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.