

## Institute of Technology Management 2009 School Year PhD Program Graduation Requirement Checklist

| 項 目 Items   | 備註 Notes   |
|---|--|
| 一、修業年限：<br>1.最低修業年限：2 年<br>2.最高修業年限：7 年（不包括休學年限 2 年）<br>Limits on Period of Study：<br>1. Minimum: 2 years<br>2. Maximum: 7 years (not including maximum 2 years suspension)   | 在職生得延長修業年限一年<br>Part-Time student may extend for one more year.  |
| 二、應修最低畢業總學分一般生共 <u>36</u> 學分、碩士直升博士生共 <u>48</u> 學分<br>包括下列兩項：<br>1. 學 科（必、選修）：<br>一般生：必修最低 <u>3</u> 學分、選修最低 <u>21</u> 學分<br>碩士直升博士生：必修最低 <u>6</u> 學分、選修最低 <u>30</u> 學分<br>2. 畢業論文： <u>12</u> 學分<br><br>Minimum graduation credits for regular student: <u>36</u> credits, for MBA/PhD student: <u>48</u> credits, including:<br>1. Courses (Core course, non-core course)<br>Regular student:<br>Core Courses: <b>3</b> credits、Non-Core Course: <b>21</b> credits<br>MBA/Ph.D. student:<br>Core Courses: <b>6</b> credits、Non-Core Course: <b>30</b> credits<br>2. Dissertation: <b>12</b> credits | 研究生學業及操行成績均以 70 分為及格。操行成績不及格者，予以退學。學業平均成績佔畢業成績 50%。<br>Passing grade for academic grade and conduct grade are both 70.<br>The student who fails the conduct grade will be disenrolled from school.<br>Academic grade occupies 50% of Graduation grade.<br><br>碩士直升博士生，其在碩士班已修科目最多採認 12 學分。學士直升博士生，最多抵免博士班畢業學分數之一半(不含畢業論文)。<br>For MBA/Ph.D. student, the maximum 12 credits earned in the MBA program can be transferred to the credits required by the Ph.D. program. The credits to be transferred to the Ph.D. program should not exceed half of the credits required by the Ph.D. program (not including thesis credits).<br><br>※必修+選修+畢業論文=最低畢業總學分<br>Core course credits + Non-core course credits + Thesis credits = total required graduation credits |
| 三、抵免學分：最高 <u>12</u> 學分<br>Credit transfer：Maximum <u>12</u> credits   | 依本校抵免學分辦法，並應於入學當學期加退選課程截止日期前申請抵免。<br>The application for credit transfer should be done before the deadline for Adding and Dropping Course.  |
| 四、選修大學部相關課程計入研究所畢業學分<br>Undergraduate credit  | 本校學生選課辦法規定：研究生因課業需要，除本系（所）基本應修學分外，經本系（所）主任（所長）與指導教授及開設課程學系主任之同意，報經教務長核可後，得選修大學部相關課程，並於修習通過後計入畢業學分，但以三學分為限。<br>Student who needs to take any course offered in undergraduate program should obtain approval from institute chair, advisor, and department chair of the offered course, and also Dean of Academic Affairs. The maximum allowed credits from undergraduate program is 3 credits.  |
| 五、承認外系（所）學分：最多 <u>6</u> 學分<br>Credits from other departments or institutes: Maximum 6 credits   | 含校際選課學分<br>Including credits obtained from other universities.   |
| 六、必修科目及學分數：共 <u>15</u> 學分   | 必修科目不及格應予重修，   |

| <table border="1"> <thead> <tr> <th>No</th> <th>科目名稱</th> <th>學分數</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>科技管理專題研討(一)</td> <td>0</td> </tr> <tr> <td>2</td> <td>科技管理專題研討(二)</td> <td>0</td> </tr> <tr> <td>3</td> <td>科技管理專題研討(三)</td> <td>0</td> </tr> <tr> <td>4</td> <td>科技管理專題研討(四)</td> <td>0</td> </tr> <tr> <td>★5</td> <td>社會科學進階研究方法</td> <td>3</td> </tr> <tr> <td>★6</td> <td>數量方法</td> <td>3</td> </tr> <tr> <td colspan="3">★表二科必修至少選一科之課程</td> </tr> <tr> <td>8</td> <td>畢業論文</td> <td>12</td> </tr> </tbody> </table> <p>Core course and credits: <u>15</u> credits</p> <table border="1"> <thead> <tr> <th>No</th> <th>Courses</th> <th>Credits</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Special Topics of Technology Management (I)</td> <td>0</td> </tr> <tr> <td>2</td> <td>Special Topics of Technology Management (II)</td> <td>0</td> </tr> <tr> <td>3</td> <td>Special Topics of Technology Management (III)</td> <td>0</td> </tr> <tr> <td>4</td> <td>Special Topics of Technology Management (IV)</td> <td>0</td> </tr> <tr> <td>★5</td> <td>Advanced Research Methods for Social Science</td> <td>3</td> </tr> <tr> <td>★6</td> <td>Quantitative Methods</td> <td>3</td> </tr> <tr> <td colspan="3">★ choose at least one course.</td> </tr> <tr> <td>8</td> <td>Dissertation</td> <td>12</td> </tr> </tbody> </table> | No   | 科目名稱    | 學分數 | 1 | 科技管理專題研討(一) | 0 | 2 | 科技管理專題研討(二) | 0 | 3 | 科技管理專題研討(三) | 0 | 4 | 科技管理專題研討(四) | 0 | ★5 | 社會科學進階研究方法 | 3 | ★6 | 數量方法 | 3 | ★表二科必修至少選一科之課程 |  |  | 8 | 畢業論文 | 12 | No | Courses | Credits | 1 | Special Topics of Technology Management (I) | 0 | 2 | Special Topics of Technology Management (II) | 0 | 3 | Special Topics of Technology Management (III) | 0 | 4 | Special Topics of Technology Management (IV) | 0 | ★5 | Advanced Research Methods for Social Science | 3 | ★6 | Quantitative Methods | 3 | ★ choose at least one course. |  |  | 8 | Dissertation | 12 | <p>必修科目未修滿不得畢業。<br/>The student who fails the core course shall retake the core course. Student is not allowed to graduate if the required core courses are not completed.</p> |
|---|--|---------|-----|---|-------------|---|---|-------------|---|---|-------------|---|---|-------------|---|----|------------|---|----|------|---|----------------|--|--|---|------|----|----|---------|---------|---|---|---|---|--|---|---|---|---|---|--|---|----|--|---|----|----------------------|---|-------------------------------|--|--|---|--------------|----|--|
| No  | 科目名稱   | 學分數     |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 1   | 科技管理專題研討(一)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 2   | 科技管理專題研討(二)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 3   | 科技管理專題研討(三)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 4   | 科技管理專題研討(四)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★5  | 社會科學進階研究方法   | 3       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★6  | 數量方法   | 3       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★表二科必修至少選一科之課程  |  |         |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 8   | 畢業論文   | 12      |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| No  | Courses  | Credits |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 1   | Special Topics of Technology Management (I)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 2   | Special Topics of Technology Management (II)   | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 3   | Special Topics of Technology Management (III)  | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 4   | Special Topics of Technology Management (IV)   | 0       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★5  | Advanced Research Methods for Social Science   | 3       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★6  | Quantitative Methods   | 3       |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| ★ choose at least one course.   |  |         |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| 8   | Dissertation   | 12      |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| <p>七、系（所）指定應補修基礎科目（不計入畢業學分）：共_____學分<br/>Prerequisite Course (not included in graduation units)：total_____Units<br/>1.<br/>2.</p>   |  |         |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| <p>八、博士班研究生考核：</p> <p>博士班研究生於入學後第一學年結束前，應經系（所）主任之同意商請指導教授。</p> <p>Ph.D. thesis advisory:</p> <p>The Ph.D. students shall choose a faculty member of the institute as thesis advisor and get approved by ITM Chair before the end of the first school year.</p>  | <p>未於規定期限內商請指導教授者，勒令休學一學期。<br/>The student who fails to choose an advisor before the above deadline will be suspended for one semester.</p>  |         |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |
| <p>九、博士候選人資格考核：</p> <ol style="list-style-type: none"> <li>1. 研究生於註冊修課兩學期後，經由指導教授同意，得向本所申請參加資格考。</li> <li>2. 由本所所務會議決定考試科目命題委員及命題方式，每一考試科目命題委員應至少為兩人，命題委員中至少一位為本所教授。</li> <li>3. 博士班研究生應於註冊三年內通過資格考試，若有特殊狀況，經所務會議通過後得延長一年。於通過資格考試後，取得博士候選人資格。</li> <li>4. 博士班資格考於每學期舉行一次，第一學期於10月中旬舉行考試，第二學期於3月中旬舉行，學生應於考試前4個月提出申請（分別為6月1日及11月1日），並填寫「資格考試申請表」，在取得指導教授同意後交至所上。</li> <li>5. 學科考試包括三個領域：科技創新管理、科技創業管理與研究方法。博士生得以發表論文抵免學科考試。</li> </ol> <p>Ph. D. candidacy</p> <ol style="list-style-type: none"> <li>1. Student can apply for the Ph. D. qualifying examination after two semesters, with approval from advisor.</li> </ol>  | <p>博士候選人資格考核不合格者，不得提出論文考試，經重考一次仍不合格者，予以退學。<br/>The student who fails the Ph.D. qualifying examination is not allowed to apply for the Ph.D. Degree Examination. The student who fails the second Ph.D. qualifying examination will be disenrolled from school.</p> |         |     |   |             |   |   |             |   |   |             |   |   |             |   |    |            |   |    |      |   |                |  |  |   |      |    |    |         |         |   |   |   |   |  |   |   |   |   |   |  |   |    |  |   |    |                      |   |                               |  |  |   |              |    |  |

2. The ITM Institute affairs committee will form an examination affairs committee and decide the way to create questions. Each subject is designed by one examination affairs committee with at least two faculty members and at least one of them must be ITM faculty.
3. The Ph. D. students must pass all subjects of the qualifying examination within 3 years. The extension to 4 years is possible after getting approval from the ITM Institute Affairs committee extending for one additional year. The Ph.D. candidacy can be only approved after passing all subjects of qualifying examinations
4. The Ph. D. qualifying examination is held every semester, in Mid-October for Fall semester and mid-March for Spring semester. The student who intends to take the Ph. D. qualifying examination should apply for the Ph. D. qualifying examination four months in advance (application deadlines are June 1 and November 1 for Spring and Fall semester, respectively) by getting approval from thesis advisor and submitting Application form for Ph. D. qualifying examination to the ITM office.
5. Qualifying examination covers three areas: Technology and Innovation Management, Technology and Entrepreneurial Management and Research Method. Student is allowed to waive the qualifying examination by publishing journal paper.

以發表論文抵免學科考試：博士生得以發表或接受之論文申請抵免博士班資格學科考試，惟論文需以在本所就讀期間完成者。除教師外，該生為該篇論文的唯一學生作者。用於抵免學科考試的論文，不包括於畢業所需發表之論文。每篇論文可抵免學科認定標準如下表：

| 期刊名稱                           | 每篇論文可抵免學科考試 |
|--------------------------------|-------------|
| 國科會管理學門的第一級期刊<br>(以入學前一年為參考資料) | 二科          |
| SCI、SSCI 所列之期刊                 | 一科          |

The Ph. D. qualifying examination can be substituted by getting journal paper published if the journal paper is published in the period of the Ph. D. program. Besides the advisor, the student should be the only one student author of the journal paper. The journal paper used to substitute the Ph. D. qualifying examination should not be included as part of the Journal papers required for meeting the requirement for graduation.

The Ph. D. qualifying examination can be substituted by a journal paper according to the following table:

| Journal Criteria  | Number of Subjects of qualifying examination can be waived |
|---|--|
| First Class Management Journals suggested by National Science Council (based on the data prior to student's enrollment) | Two subjects   |
| SCI and SSC journals  | One subject  |

6. 資格考試以筆試行之。資格考試成績以七十分為及格，一百分為滿分。不及格者，均得於次學期或次學年舉行重考，重考以一次為限。

The Ph. D. Qualifying Examination is a written test. The passing grade and full marks of the Ph. D. Qualifying Examination are 70 and 100, respectively. The student who fails the Ph. D. Qualifying Examination is allowed to retake the Ph. D. Qualifying Examination only once in the following semester or following year.

|  |  |
|--|--|
| <p>十、博士學位考試（論文考試）：<br/>通過博士候選人資格考核，並完成研究論文初稿者得於當學期完成註冊選課後，於預定舉行論文考試日期至少二十天前提出論文考試申請。論文考試成績以 70 分為及格。</p> <p>Ph. D. Degree Examination (thesis examination)</p> <p>The student who has obtained Ph.D. candidacy, finished the draft of Ph.D. thesis and also registered in that semester, can apply for the Ph. D. Degree Examination in that semester and at least 20 days before the date scheduled for the examination. The passing grade is 70.</p> | <p>論文考試成績佔畢業成績 50%。<br/>論文不及格而修業年限未屆滿者，得於次學年或次學期申請重考一次，重考仍不及格者，予以退學。重考及格者之成績，概以 70 分計算。</p> <p>The Ph. D. Degree Examination occupies 50% of graduation grade. The student who fails the Ph. D. Degree Examination can retake the examination in the next semester or next school year if the maximum period of study has not been reached. The passing grade for the retaken examination is 70.</p> |
| <p>十一、其 他：<br/>研究生英語能力畢業標準：本所未定</p> <p>Other:<br/>English proficiency standard : n/a</p>   | <p>依「國立中興大學學生英文能力畢業標準檢定辦法」第 2 條規定，授權系所自訂研究生英語能力畢業標準。(98.3.26 第 57 次教務會議訂定)</p> <p>According to article 2 of NCHU English Proficiency Requirement for Students, the English Proficiency Requirement is decided by each institute. (amended by NCHU Academic Affairs Meeting on Mar. 26, 2009)</p>   |

※必修科目及畢業學分數規定，由系所依各學年課程規劃表填列。

※相關章程規定查詢網址：<http://www.nchu.edu.tw/~indodep/chinese/rule.htm>

※ 英文翻譯若有爭議以中文解釋為準

※ Core course and Credit Requirement are based on curriculum plan of the Institute?

※ For more information about relevant regulations: <http://www.nchu.edu.tw/~indodep/chinese/rule.htm>

※ In case of discrepancy between the Chinese version of terms & rules and its English translation, the Chinese version shall prevail.

系承辦人：

Office TA: Mei-Li Chen

系主任(所長)簽章：

Institute Chair : Ernest Chang

105 年 1 月 25 日

Jan. 25, 2016

科技管理 研究所博士班畢業條件明細表(98 學年度起入學適用)  
**Institute of Technology Management Ph. D. Graduation Requirement List (For Students Enrolled in Fall, 2009)**

專業選修科目列表 Non-core course

| 科目名稱<br>Course  | 全或半<br>School Year or<br>Semester | 學分<br>Credits |
|---|-----------------------------------|---------------|
| (1) 科技商品化與創業管理<br>Technology Commercialization and Entrepreneur Management                          | 半<br>Semester                     | 3             |
| (2) 服務科學與管理<br>Service Science and Management   | 半<br>Semester                     | 3             |
| (3) 知識型企業經營<br>Knowledge-Based Entrepreneur Business  | 半<br>Semester                     | 3             |
| (4) 創新產品開發研討<br>Special topics in Innovative Product Development                                    | 半<br>Semester                     | 3             |
| (5) 科技管理決策分析研討<br>Special topics in Technology Management and Decision-Making Strategies            | 半<br>Semester                     | 3             |
| (6) 組織創新與智慧資本管理研討<br>Special topics in Organizational Innovation and Intellectual Assets Management | 半<br>Semester                     | 3             |
| (7) 創業與社會網絡研討<br>Special topics in Entrepreneurship and Social Networks                             | 半<br>Semester                     | 3             |
| (8) 高科技製造策略<br>High-Tech Manufacturing Strategy   | 半<br>Semester                     | 3             |
| (9) 流程創新研討<br>Special topics in Flow Innovation   | 半<br>Semester                     | 3             |
| (10) 科技法律與智慧財產權管理<br>Technological Law and IPR Management   | 半<br>Semester                     | 3             |
| (11) 科技產業競爭與分析研討<br>Special topics in Technological Industry Competition and Analysis               | 半<br>Semester                     | 3             |
| (12) 科技創新管理研討<br>Special Topics in Strategic Management of Technology Management                    | 半<br>Semester                     | 3             |

◎ 備註：

1. 本系最低應選修\_\_\_\_\_學分。
2. 以上選修科目來自課程規劃，可能未成班或停開。

◎ Note:

1. The minimum required non-core course credits are \_\_\_credits.
2. The non-core courses listed above are preliminarily planned and are not guaranteed to be available every year.

系承辦人：  
Office TA: Mei-Li Chen

系主任(所長)簽章：  
Institute Chair : Ernest Chang

98 年 8 月 31 日  
Aug. 31, 2009