

Ming Chuan University Applied Statistics and Information Science Procedures for Proficiency-based Graduation Requirements

Article 1 With an aim to prepare students for their future careers and further studies, these regulations were established to improve students' professional competencies

Article 2 To attain graduation eligibility, undergraduate students admitted in the 2010-11 academic year and beyond must meet the graduation requirements specified in these procedures and the enforcement rules for Service-Learning, English proficiency, Information Technology proficiency, Chinese proficiency and Sports capability, as well as the professional competencies regulated by the academic unit to which they belong.

Graduate students must meet the graduation requirements for professional competency regulated by the department.

Article 3 Proficiency-based Graduation Requirements are as follows,

【Undergraduate Program】

Professional Competencies	Requirements
Statistical Analyses	1. Acquire one of the certifications below (1) Passing any U.S. actuary exam. (2) Chinese Applied Statistics Association—"Basic Statistics" or "Statistics Analyses" certification (3) Chinese Society for Quality "Quality Technician", "Quality Engineer", or "Reliability Engineer" certification. (4) Chinese Institute of Industrial Engineers "Quality Management Technician" certificate (5) Awards or qualifications from Statistics related competitions (6) Statistical knowledge Today certificate (7) Data Power Today certificate (8) Data Analysis Using Excel certificate or 2. Obtaining admission from graduate programs domestic or abroad, or passing elementary or specialized exams held by the ministry of examination. or 3. Passing "Basic Statistics" exam held by the department.
Information Application	1. Acquire one of the certifications below, (1) SAS Certified Base Programmer (2) TQC-DA Database Application : Access certificate (primary) (3) TQC-PD programming : VB programming

	<p>certificate (primary)</p> <p>(4) Sun Java certification : Sun JAVA programming certification (SCJP, Sun JAVA Certified Programmer)</p> <p>(5) Chung-Hwa Data Mining Society "Data Mining Analyst" certificate</p> <p>(6) <u>Chinese Computer Education Association</u> "Business Data Analyst" certificate</p> <p>(7) Professional certificates approved by our graduate program.</p> <p>(8) Big Data Knowledge Today</p> <p>(9) R Language Today</p> <p>(10) SAS Knowledge Today</p> <p>or</p> <p>2. Passing the "Statistical Software Package" exam held by the department.</p>
Statistics Related Abilities	<p>Acquire any of the related track or program certification,</p> <ol style="list-style-type: none"> 1. Our department's business statistics information track certification. 2. Our department's industrial statistics information track certification. 3. Our department's biostatistics information track certification. 4. Our department's "Financial Statistics Degree Program" certification. 5. Our department's "Big Data and Statistics Focused Course Program" certification. 6. Public Affairs department's "Public Opinion and Market Survey Degree Program" certification. 7. Information Engineering "Data Mining and Decision Analysis Degree Program" certification.
Research Project Execution Ability	Passing the oral exam and written report review.

【Graduate Program】

Professional Competencies	Requirements
Statistical Analyses	<ol style="list-style-type: none"> 1. Acquire one of the certifications below, <ol style="list-style-type: none"> (1) Passing any U.S. actuary exam. (2) Chinese Society for Quality "Quality Engineer" or "Reliability Engineer" certification. (3) Chinese Institute of Industrial Engineers "Quality Management Technician" certificate (4) Statistical Knowledge Today certification (5) Data Power Today certification (6) Data Analysis Using Excel certification <p>or</p>

	<p>2. Obtaining admission from Ph.D. programs domestic or abroad, or passing regular or specialized exams held by the ministry of examination.</p> <p>or</p> <p>3. Passing the “Statistical Methods and Data Processing” course offered by our graduate program.</p>
Information Application	<p>1. Acquire one of the certifications below,</p> <p>(1) SAS Certified Base Programmer</p> <p>(2) SAS Certified Advanced Programmer</p> <p>(3) Chinese Applied Statistics Association—“Data Processing” certification.</p> <p>(4) Chung-Hwa Data Mining Society ”Data Mining Analyst” certificate</p> <p>(5) TQC-DA database application: Access certificate (advanced)</p> <p>(6) TQC-DA database application: SQL Server certificate (professional)</p> <p>(7) TQC-DA database application: MySQL certificate (professional)</p> <p>(8) TQC-PD programming: VB programming certificate (advanced)</p> <p>(9) Big Data Knowledge Today certification</p> <p>(10) R Language Today certification</p> <p>(11) SAS Knowledge Toda certification</p> <p>or</p> <p>2. Passing “SAS software related competitions”</p> <p>or</p> <p>3. Passing the Statistics Information Software Application Exam held by the department.</p>
Thesis Writing and Research Ability	Presenting papers at refereed conferences or publishing papers in refereed journals.
Statistical consultation	Before graduation to be done full statistical consulting 100 hours

Article 4 Students who fail any of the proficiency requirements must enroll and pass specified remedial courses to attain graduation eligibility.

Article 5 Students who meet the graduation requirements for a proficiency test should submit the original certificate or score report to the department for review. After completion of these procedures, the students will be verified as meeting the graduation requirements.

Article 6 Upon being passed at the University Affairs Committee Meeting and submitted to the Ministry of Education for reference, there procedures were announced and implemented. Any revision must follow the same procedures.