

## Accreditation

The University of Guam is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC). Accreditation means that the Commission has determined that an institution has clearly defined educational objectives appropriate to post-secondary education and is implementing them in a manner consistent with Commission standards. The Office of Graduate Studies is authorized to accept graduate credits transferred from graduate schools of other colleges and universities accredited by any of the American Regional Accrediting Agencies.

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## Disclaimer

This document provides general information about the University of Guam, its programs and services, and summarizes those major policies and procedures as they relate to students. For further information about general and specific details and requirements of programs and services, students should consult with the appropriate discipline, division, college or other service unit. The University attempts to provide accurate updated information and advisement, but the student is ultimately responsible for planning and carrying out a program of study leading to a graduate degree. The University reserves the right to change or delete, supplement or otherwise amend at any time the information, requirements, and policies contained herein and related hereto.

The University of Guam is an Equal Opportunity Employer and Provider.

## **UNIVERSITY OF GUAM**

### **Mission**

*Inina, Diskubre, Setbisio - To Enlighten, to Discover, To Serve*

The University of Guam is a U.S. accredited, regional Land Grant institution. It is dedicated to the search for and dissemination of knowledge, wisdom and truth.

The University exists to serve its learners and the communities of Guam, Micronesia, and the neighboring regions of the Pacific and Asia.

The University prepares learners for life by providing the opportunity to acquire knowledge, skills, attitudes, and abilities through the core curriculum, degree programs, research and outreach.

At the Pacific crosscurrents of the East and West, the University of Guam provides a unique opportunity to discover and acquire indigenous and global knowledge

## FOREWORD

Graduate Studies provides support to the graduate degree programs and non-degree graduate instructional activities of the academic colleges. The research institutes are now administered independently of the graduate programs, although a close bond will always exist between research and graduate teaching and learning. As a result of these changes, the *AY2005 – 2006 Graduate Bulletin* emphasizes the various graduate degree programs of the University of Guam, augmented by information on academic rules and procedures, with supplementary information on services and resources available to graduate students.

The role of Graduate Studies is to administer graduate admissions, provide students with advice, liaison, and assistance with special problems, and to coordinate post-baccalaureate studies. Maintenance of transcripts and the recording of grades are the functions of the Office of Admissions and Records. Curriculum and course scheduling are handled in the academic colleges. Graduate student appeals, petitions, and requests for special consideration may be handled by the Deans or brought before the Academic Committee on Graduate Curricula.

The dedicated staff of Graduate Studies join me in welcoming inquiries and visits from potential or continuing graduate students. I urge prospective students to make direct contact with the faculty Chairs and Advisors of the graduate programs in which they have an interest. The identities of these program leaders are provided at the beginning of each program description. In addition, the University of Guam web page is a useful resource to students.

Helen J. D. Whippy, Ph.D  
Senior Vice President,  
Academic and Student Affairs



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# ACADEMIC CALENDAR

## 2005-2006

The "deadlines" listed below for application and registration into the University of Guam are recommended timelines that students are encouraged to observe. The University will continue to accept applications and process registration for new, first-time and returning students up to the last day of Late Registration. However, those applicants must provide complete documentation at the time of application to facilitate acceptance into the University

The "deadlines" listed below for application and registration into the University of Guam are recommended timelines that students are encouraged to observe. The University will continue to accept applications and process registration for new, first-time and returning students up to the last day of Late Registration. However, those applicants must provide complete documentation at the time of application for acceptance into the University-

<b>FALL 2005</b>			
June 6	<b>Deadline to Submit Resident/Non-Resident (except International students) Application for Admissions</b> to avoid Fall 2005 Late Registration.	September 5	<b>Holiday - Labor Day*</b>
July 01	Graduate English Proficiency Exam for Fall 2005	October 14	Deadline to submit forms for thesis and special projects for Graduate Studies  Deadline for Graduate Students to pass Final Oral Examination for Fall 2005
July 28	<b>Deadline To Submit Former Student Re-Entry Application</b> to participate in Fall 2005 Open Registration. Students who submit Re-Entry Applications after deadline will participate in Fall 2005 Late Registration.	October 19	<b>Last Day for Voluntary Withdrawal from Fall 2005 Classes With A Grade Of "W"</b>
August 3 – 5	<b>Fall 2005 - Open Registration</b> Records office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday). Payment due August 31.	November 2	<b>Holiday-All Soul's Day*</b>
August 08- 12	<b>New Graduate/Student Registration</b>  <b>Senior Citizens notify Records Office of Intent to participate in tuition program.</b>	November 4	Deadline to submit approved thesis or special project to the Office of Graduate Studies  Deadline to submit form B to the Graduate Studies Office
August 15&16	<b>Fall 2005 Late Registration (For All Students).</b> Register at the Records office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday). <b>Payment must be completed by August 26 by 3:00 p.m.</b>	November 11	<b>Holiday - Veteran's Day*</b>
August 17	<b>Fall 2005 Weekday Classes Begin</b>	November 24	<b>Holiday - Thanksgiving Day</b>
August 17-23	<b>Fall 2005 Schedule Adjustment</b> - Make schedule adjustment at the Records office, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday) Cancellation Fees applies.	November 24–27	<b>Thanksgiving Break*</b>
August 20	<b>Fall 2005 Saturday Classes Begin</b>	November 25	Deadline for acceptance of final approved thesis or special projects by coordinator of Graduate Studies for Fall 2005 semester completion
August 23	<b>Deadline To Withdraw Without Transcript Records Entry For Fall 2005.</b>	December 2	<b>Graduate English Proficiency Examination (GEPE)</b> This examination is for students who wish to enroll in graduate studies for the Spring 2006 semester.
August 24	<b>Senior Citizen Tuition Program Registration for Eligible residents (55+).</b>	December 8	<b>Holiday - Our Lady of Camarin Day*</b>
August 26	<b>Deadline to make payment or satisfactory payment arrangements with the Collections Office located 2<sup>nd</sup> floor at the Field House.</b>	December 9	<b>Deadline To Submit Petition To Withdraw From Fall 2005 Classes</b> - Pick-up and submit form at the Records Office by 5pm. (One form per class; each form requires individual instructors and advisor signature and approval).  <b>Last Day Of Fall 2005 Classes</b>
		December 10	<b>Final Exams-Fall 2005 Saturday classes</b>
		December 12-14	<b>Final Exams - Fall 2005 weekday classes</b>
		December 16	<b>Fall 2005 Semester Ends</b>
		December 18	<b>Fall 2005 Commencement Ceremony</b>



December 19 **Grades For All Students Except Prospective Graduating Students including class levels SR/G0/G1/G2 Due At The Records Office By 5 P.M.** Office located 2<sup>nd</sup> floor at the Field House on January 31 by 3:00 pm.

March 8 **Last Day For Voluntary Withdrawal From Spring 2006 Classes With A Grade Of "W"**

December 25 **Holiday - Christmas Day\*** March 10 Deadline to submit forms for thesis and special project for graduate studies

**SPRING 2006**

September 7 **Deadline To Submit International (Foreign I-20) Application For Admission For Spring 2006.** March 14 **Charter Day\***

October 14 **Deadline To Submit Former Student Re-Entry Application** to participate in Spring 2006 Early Registration by class level. Students who submit Re-Entry Applications after deadline will participate in Spring 2006 Late Registration. March 31 Deadline for Graduate Students to announce final oral examinations for Spring 2006.

November 15 **Deadline To Submit Resident/Non-Resident Application (except International student's) For Admission** to avoid Spring 2006 Late Registration. April 10-15 **Easter Break - Spring 2006\***

November 14 – December 2 **Spring 2006 Early Registration By Class Level** April 21 Deadline to submit form B to the Graduate Studies Office.

December 2 **Graduate English Proficiency Examination (GEPE)** This examination is for students who wish to enroll in Graduate Studies for the Spring 2006 semester. May 5 Graduate English Proficiency Examination (GEPE) this examination is for students who wish to enroll in Graduate Studies for the Summer 2005 semester.

**2006**

January 1 **Holiday - New Year's Day\*** May 12 **Deadline To Submit Petitions To Withdraw From Spring 2006 Classes** - Pick-up and submit form at the Records Office by 5PM. One form per class; each form requires individual instructors' and advisor's signature/approval.)

January 4-6 **Spring 2006 - Open Registration** Register at the Records office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday). May 13 **Final Exams - Spring 2006 Saturday classes**

January 9-12 **Senior Citizens notify Records Office of Intent to participate in tuition program.** May 15-17 **Final Exams - Spring 2006 Monday To Friday classes**

January 13, 16, 17 **Spring 2006 Late Registration (For all students).** Register at the Records office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday). **Payment must be completed January 31 by 3:00 p.m.** May 19 **Spring 2006 Semester Ends**

January 18 **Spring 2006 Weekday Classes Begin** May 28 **Commencement - Spring 2006**

January 18-24 **Spring 2006 Schedule Adjustment** - Make schedule adjustment at the Records office, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday) Cancellation Fee applies. February 10 **Deadline To Submit Summer 2006 International (Foreign I-20) Application For Admission.**

January 21 **Spring 2006 Saturday Classes Begin** March 3 **Deadline To Submit Application For Degree Completion** Seniors anticipating Summer 2006 or Fall 2006 degree completion must submit an application to the Records Office.

January 24 **Last Day To Drop From Spring 2006 Classes Without Transcript Record Entry.** March 8 -27 **Summer 2006 Early Registration By Class Level** Register at the Records Office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday). **Payment must be completed no later than the second day for each Summer Session.**

January 25 **Senior Citizen Tuition Program Registration for Eligible residents (55+).** March 24 **Deadline To Submit International (Foreign I-20) Application (except International student's) For Admission For Fall 2006**

January 31 **Deadline to make payment or satisfactory payment arrangement with the Collections**

**SUMMER 2006**

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April 21 **Deadline To Submit Resident/Non-Resident Application For Admission** to participate in Summer 2006 New Student Orientation/Registration.

**Deadline To Submit Former Student Re-Entry Application** to participate in Registration for Summer Session 2006.

May 23-24 **Summer Session Open Registration**  
Register at the Records office, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday).

May 28 **Spring 2006 Commencement Ceremony**

May 29 **Holiday - Memorial Day\***

May 30 **First Day Of Classes, Late Registration & Schedule Adjustment - Summer 2006 Session "A"**

June 12 **First Day Of Classes, Late Registration & Schedule Adjustment - Summer 2006 Session "B"**

June 14 **Last Day For Voluntary Withdrawal From Summer 2006 Session "A" Classes With A Grade Of "W"**

July 3 **Last Day Of Classes For Summer 2006 Session "A"**

**Deadline To Submit Petition To Withdraw From Summer 2006 Session "A" Classes** - Pick Up And Submit Form At The Records Office By 5:00 P.M. (One Form Per Class; Each Form Requires Individual Instructors Signature/Approval.

July 4 **Holiday - Independence Day\***

July 5 **First Day of Classes, Late Registration & Schedule Adjustment - Summer 2006 Session C**

July 6 **Grades For Summer 2006 Session "A" Due At The Records Office By 5:00 Pm.**

July 7 Graduate English Proficiency Examination for Spring 2006.

July 11 **Last Day For Voluntary Withdrawal For Summer 2006 Session "B" Classes With A Grade Of "W"**

July 21 **Holiday - Liberation Day\***

July 24 **Last Day For Voluntary Withdrawal From Summer 2006 Session "C" Classes With A Grade Of "W"**

July 29 **Last Day of Classes - Summer 2006 Session "B"**

**July 31** **Deadline To Submit Petition To Withdraw From Summer 2006 Session "B" Classes** - Pick up and submit form at the Records Office by 5:00 p.m. (One form per class; each form requires individual instructors signature and approval.

August 4 **Grades For Summer 2006 Session "B" Due At The Records Office By 5:00 P.M.**

August 9 **Last Day Of Classes - Summer 2006 Session "C".**

**Deadline To Submit Petition To Withdraw From Summer 2006 Session "C" Classes** - Pick up and submit form at the Records Office by 5:00 p.m. (One form per class; each form requires individual instructors signature and approval

August 11 **Grades For Summer 2006 Session "C" Due At The Records By 5:00 P.M.**

**FALL 2006**

April 5 – May 1 **Fall 2006 Early Registration By Class Level**  
Register at the Records Office, Web Advisor, or any Satellite location (8:00 a.m. - 5:00 p.m., Monday - Friday).

June 9 **Deadline To Submit Resident/Non-Resident (except International students) Application For Admissions For Fall 2006 Semester.**

July 6 **Fall 2006 Placement Test – Last Names (A-L) 8:00 a.m., UOG Lecture Hall.** (For More Information, please call 735-2725). Bring picture ID with Social Security Number.

July 7 **Fall 2006 Placement Test – Last Names (M-Z) 8:00 a.m., UOG Lecture hall.** (For More Information, please call 735-2725). Bring picture ID with Social Security Number.

## GENERAL ADMISSION

### GRADUATE PROGRAMS

The University of Guam offers programs of graduate work in the following degrees that are listed below.

- Master of Arts in Art
- Master of Arts in Counseling
- Master of Arts in Micronesian Studies
- Professional Master of Business Administration
- Master of Education with Areas of Specialization in:
  - Administration and Supervision
  - Language and Literacy
    - Option A: Thesis/Special Project
    - Option B: Non-Thesis
  - Secondary Education
  - Special Education
  - TESOL (Teaching English to Speakers of Other Languages)
    - Option A: Thesis/Special Project
    - Option B: Non-Thesis
- Master of Public Administration
- Master of Science in Biology
- Master of Science in Environmental Science

**Requirements of specific degree programs of the University may exceed graduate school minima.**

### MISSION

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- The University prepares learners for life by providing the opportunity to acquire knowledge, skills, attitudes, and abilities through the core curriculum, degree programs, research and outreach.
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# **ACADEMIC REQUIREMENTS**

## **GRADUATE ADMISSIONS STANDARDS**

Students must be admitted to Graduate Studies status to take graduate courses for credit, except in the case of qualifying undergraduates as stated in the Academic Regulations of this bulletin.

### **ADMISSIONS REQUIREMENTS**

To be admitted to Graduate status, the applicant must have a recognized bachelor's degree with a minimum GPA of 2.50 (C+) on a 4.00 grading system (or the equivalent GPA on the basis of another grading system) and must comply with the following:

1. File an application form with the Office of Graduate Studies or Registrar's Office, University of Guam, UOG Station, Mangilao, Guam 96923. A non-refundable application fee must accompany the application form.
2. Have a copy of official certified transcripts, showing credits hours earned and degree granted from all other colleges and universities attended, sent directly to the Office of Admissions and Records. Non-official copies may be provisionally accepted for the first semester of enrollment. Failure to comply may result in loss of graduate standing and forfeiture of credits.
3. Pass the Graduate English Proficiency Examination administered by the Graduate Studies and the Division of English and Applied Linguistics. Official scores of 550 on the TOEFL (Test of English as a Foreign Language) or 400 on the Verbal Section of the GRE (Graduate Record Examination) general test or a total score of 400 on the GMAT may serve as a substitute. This requirement may be waived by the Graduate Coordinator on the basis of other tests of written English or for applicants who have earned post baccalaureate degrees from institutions of higher education accredited in the U.S.
4. Provide written documentation of a Tuberculin Test (PPD) taken within the previous six months (and results of an X-ray if PPD is positive), plus, for students born in 1957 or later, evidence of vaccination against mumps, measles and rubella (MMR).

For enrollment in graduate courses, students must meet any department/division requirements, including prerequisite courses or consent of instructor. A maximum of 12 graduate credits, earned at the University of Guam prior to the student's admittance into a graduate program, may be applied toward fulfilling the master's degree requirements. The 12 graduate credits shall not include any prerequisites for a student's admittance into a graduate program. Students must meet all the requirements established for admission to a degree program, and have an approved Form A-99 that may be picked up at the Graduate Studies Office. All GPA figures are calculated to four decimal places and are not rounded off.

### **PRE-CANDIDATE STATUS**

Pre-candidate students are those who wish to pursue a specific degree, but who have not yet been admitted to full candidacy for that degree. To be admitted by the Graduate Studies to Pre-candidate Status, a student must fulfill all the requirements outlined above for admission, plus the following additional requirements:

1. Declare intention in writing to pursue a specific degree program and seek advisement from the faculty of the program selected.

2. Meet the requirements established for the chosen degree program, be accepted as a potential candidate by the chair and faculty of that program, and file a Form A–99, signed by the student, the program chair, the academic college dean, and the Coordinator of Graduate Studies.
3. Submit to the Graduate Studies Office a written statement (original and one copy) of accomplishments, interests, and goals and reasons for wishing to pursue a master's degree.
4. Have at least two letters of reference submitted on his/her behalf from persons familiar with the applicant's academic or professional performance.

### **DEGREE CANDIDATE STATUS**

Pre-candidate Students or new applicants may apply for admission to Candidacy for a Degree. A maximum of 12 graduate credits, earned at the University of Guam prior to the student's admittance into graduate school, may be applied toward fulfilling the master's degree requirements. Degree Candidates are admitted to the Graduate School in full standing with Candidacy in a specific program.

Degree Candidates must meet the requirements outlined above for Pre-candidate Students, as well as the following additional requirements:

1. File an application form with the Office of Graduate Studies, University of Guam, UOG Station, Mangilao, Guam 96923. A non-refundable application fee must accompany the application form (if new applicant).
2. Have GRE (General Test) results with a minimum cumulative score of 900, or GMAT results with a minimum score of 400, no more than five years old, sent directly to the Graduate School from the Educational Testing Service or Graduate Management Admission Council, respectively.
3. Meet all admission requirements of the program in which candidacy is sought, including all required official transcripts.
4. Ensure that a fully completed program contract (Form A–99) signed by student, the Program Chair, the applicable College Dean and the Coordinator of Graduate Studies is filed with the Office of Graduate Studies.

The Graduate Bulletin presents minimum degree requirements expected of all students. At the discretion of the Advisory Committee, individual students found to have academic deficiencies may be expected to meet additional requirements as a condition to a graduate program and degree candidacy.

**Note: Specific degree programs of the University may exceed Graduate School minima.**

### **GENERAL REQUIREMENTS**

1. A minimum of 30 semester credit hours is required for the completion of the master's degree; most programs require more.
2. Twenty-one hours must be completed in residence or under direct supervision of full-time University of Guam Faculty.
3. All work towards a master's degree must be completed within seven years of admission to a degree program. No course completed more than seven years before the date of degree completion will be accepted toward the degree.
4. All but 10 of the semester credit hours included in the degree program must be 500/600 level courses.
5. At the completion of 12 semester credit hours, a graduate student must maintain a cumulative GPA of 3.00 or better in all graduate courses. The cumulative GPA will be calculated at the end of each session, i.e., Fall, Spring, and Summer, by the Office of Admissions and Records.

## **ACCEPTANCE INTO A GRADUATE PROGRAM AND DEGREE CANDIDACY; Form A-99**

Students seeking degrees must file form A-99, containing various sections described below, with the Office of Graduate Studies. A maximum of 12 graduate credits, earned at the University of Guam prior to the student's admittance into a graduate program, may be applied toward fulfilling the master's degree requirements. The 12 credits shall not include any prerequisites for a student's admittance into a graduate program. Credits in excess of this may not subsequently be applied to a degree program. The revised Form A-99 replaces the previously used Forms A-96, A-83, A, C, and D described in earlier editions of this Graduate Bulletin.

For acceptance into a graduate program and degree candidacy, a student must meet the minimum requirements, as described in the section on Academic Regulations.

### Section I: General Information

This section of the Form A-99 is to be filled in by the student.

### Section II: Pre-candidate Advisement and Review

The student and Program Chair sign this section when the intent for a degree in the specialization field has been established and the student is accepted into a program at the pre-candidate level. It is the responsibility of the student to be informed of requirements for the degree sought.

### Section III: Program Committee

At the time of application to a graduate program (submittal of Form A-99), the student should select an advisory Committee Chair approved by the Graduate Program Chair, the dean of the applicable academic college, and the Graduate Coordinator. At least one semester prior to completion of the degree, a committee shall be formed consisting of a chairperson and at least two additional members, one of whom shall be from outside the faculty of the area of the student's major.

### Section IV: Transfer of Credits

Graduate students must file transcripts of their graduate work at other colleges or universities with the Office of Admissions and Records. Only grades of "A" and "B" are transferable, and no more than nine (9) semester hours of graduate work can be transferred to the University of Guam. Evaluation of transfer credits is initiated with the student's advisor, who approves or disapproves any equivalence of transfer courses to those offered at the University of Guam. The transfer portion of Form A-99 (Section IV) is filled out when the form is submitted to the Office of Graduate Studies, which will transmit it to the Director of Admissions and Records for Certification.

Graduate credit earned through distance education programs may be acceptable toward an advanced degree, if approved by the Program Chair and Graduate Coordinator. Such credit may also serve as a contractual undergraduate prerequisite with the written approval of the student's advisor and the approval of the appropriate department.

Graduate credit normally cannot be through broadcast (as opposed to closed circuit) radio and television courses. Exceptions require approval of the Academic Committee on Graduate Curricula upon petition giving the appropriate facts and evidence, bearing the advisor's signature, submitted through the Office of Graduate Studies, and initiated before completion of the course. No credit will be awarded for "life experience."

Section V: Program Contract

No course completed more than seven years before the date of graduation will be accepted toward the degree.

**Qualifying Examination.** Before a student is admitted to candidacy in a particular program and the contract is signed, a student may be required to pass an examination in the major field of study. It is designed to reveal the quality of the student's preparation for advanced work in the field and his/her ability to pursue graduate work at the master's level.

A student who fails the qualifying or comprehensive examination may repeat it after three months upon recommendation of the graduate faculty of the major field of study and approval of the Graduate Coordinator. The student will not be considered further for candidacy in that field should he/she fail the examination twice.

Section VI: Candidacy for the Degree

This section is signed by the program chair, the college dean, and the Coordinator of Graduate Studies when all requirements and documents for the degree program have been submitted to the Office of Graduate Studies by the student.

**NOTICE OF COMPLETION OF MASTER'S DEGREE; FORM B**

All students must submit a Form B "Notice of Completion of Master's Degree" application that may be picked up at the Graduate Studies Office. This form will be filled and signed by the program chair, members of the student's advisory Committee, the college dean, and submitted for approval by the Coordinator of Graduate Studies after all requirements for the degree have been met. All grades of "I" should be cleared before the form is submitted.

**FINAL EXAMINATION**

All students must pass a final examination, oral or written or both. The oral examination or thesis defense will be given before the end of the term in which the degree is to be conferred, with all the members of the candidate's committee present, and should meet the deadline specified in the Academic Calendar. Should the student's performance be judged unsatisfactory in either the written or oral final examination, he/she may be permitted to repeat the examination but only if this is recommended by the committee and approved by the Academic College Dean. At least three months must elapse before re-examination.

Academic Committee on Graduate Program members are ex-officio members of all graduate committees. All members of the Council must be notified of the oral examination at least one week before the examination. All oral examinations will be open to the University community.

Some programs require a comprehensive written examination. This will be arranged by the advisor. A copy of the final written examination must be filed with the Graduate Studies Office. For examination deadlines, please refer to the Calendar.

**THESIS**

Requirement for Thesis. A thesis alternative is provided in most major programs. The Master's Thesis original should offer evidence of substantial research and an adequate treatment of a well defined subject. No mere essay or compilation of facts will be accepted. The thesis must be written on a subject comprehended under the major and approved by the student's Graduate Program Committee. Joint authorship is not permitted.



The responsibility for a well-organized presentation of personal research rests upon the candidate. He/she should keep all members of the committee informed of the scope, plan, and progress of both the research and the thesis. The committee chairperson is primarily responsible for directing a coherent program of courses and for guiding the candidate's research and writing activities, but other committee members share this responsibility.

Before beginning the writing of the thesis, the student should consult with his/her advisor, obtain the approval of his/her committee, and familiarize him/herself with the thesis booklet *"Requirements for the Preparation of Thesis at the University of Guam"* which can be obtained from the Graduate Studies Office.

Proposed final copies of the thesis must be submitted to committee members and the Graduate Office at least one week before the oral examination. When approved by the committee the original and first copy of the thesis must be deposited with the Coordinator of Graduate Studies before the end of the term or semester in which graduation is expected and must meet the deadline specified in the Calendar. These copies are final and should need no correction. The department may require one copy of the thesis, and the student should make prior inquiry.

Thesis Oral Examination. This examination will cover the thesis and related areas. It should be held before the end of the term in which the degree is conferred, and must meet the deadline specified in the Calendar. It is conducted by the student's committee and is open to the University community. Should the student fail the examination, he or she may repeat it upon recommendation of the faculty concerned and approval of the Graduate Coordinator. In addition, the committee chairman may ask the candidate to present the results of his or her research at a departmental graduate seminar, but all members of the thesis committee must be present.

Thesis Registration. A student formally begins his or her thesis any time after acceptance to candidacy by registering for Thesis 695. The advisor will submit a grade of "I" if the thesis is incomplete at the end of the semester in which the student is enrolled. For thesis deadlines, please refer to the Calendar.

## **SPECIAL PROJECT**

A special project alternative in lieu of thesis is provided in some majors. The special project should offer evidence of subject research and must be presented in the written style applicable to the subject area. Joint authorship is not permitted. The original of the special project must be submitted to the Coordinator of Graduate Studies for approval before the end of the term or semester in which graduation is expected, and must meet the deadline specified in the Calendar. This copy is final and should need no correction. When approved, the report will be deposited in the R.F.K. Memorial Library.

Before beginning the writing of the special project, the student should consult with his or her advisor, obtain the approval of his or her committee, and familiarize himself or herself with the booklet *"Requirements for the Preparation of Thesis at the University of Guam"* which can be obtained from the Graduate Studies Office.

The 690 course is to be available only to students who have been admitted to candidacy for an advanced degree or those already holding an advanced degree.

## **CLEARANCE FOR GRADUATION**

Students should submit an application for graduation to the Office of Admissions and Records by the date specified in the Academic Calendar. Should the student fail to file a request for graduation, the necessary steps preparatory to official awarding of the degree will not be taken and the actual awarding of the degree will be delayed.

At least three weeks before graduation, students should personally check with the Office of Graduate Studies to make sure that all forms and certifications required for graduation have been received, and all grades of "I" have been cleared.

## **RULES AND REGULATIONS**

### **ADVISEMENT AND REGISTRATION**

In addition to the three classes of graduate students described above, there are special auditors, who receive no credit for courses attended, and students taking post-baccalaureate courses for professional development.

Degree students should, in all cases, consult with their advisor at least twice a term, especially before registration. The Office of Graduate Studies and the offices of the academic college deans are sources of consultation. These offices will maintain special hours during registration periods. The student should not accept advice contrary to clearly stated regulations. The student alone is responsible for meeting all requirements, and for being familiar with academic regulations and degree requirements in this bulletin and other supplements thereto.

### **UNDERGRADUATES IN GRADUATE COURSES**

No undergraduate student may register for or receive credit for graduate courses except under the following circumstances. Before registering for a graduate course, the student must:

1. Procure the Graduate Credit Request Form from the Records Office;
2. Complete the above form and present it to the Registrar's Office who will certify that the student is a senior with a cumulative GPA of 3.00 or better from all schools attended. If the credits are counted toward a baccalaureate degree, they may not also subsequently be counted toward a graduate degree;
3. Then obtain the signature of his/her advisor or major department head; and
4. Present the Request Form to the Office of Graduate Studies.
5. Grading will be on the same basis as that of the graduate students.

### **GRADUATE STUDENTS RETURNING TO UNDERGRADUATE STATUS**

A graduate student may withdraw from the Graduate Studies at any time upon the presentation of written notification of his/her decision to the Coordinator for Graduate Studies and to the Admissions Office. If the student then decides to apply for undergraduate status, he/she will be subject to all undergraduate procedures.

Undergraduate courses taken while a graduate student may count toward an undergraduate degree. Graduate courses taken while a graduate student may or may not apply to an undergraduate degree depending on the choice of the student. If the student elects in writing to have graduate courses apply as upper division credits to an undergraduate degree, graduate credits will be lost. Otherwise, they will be retained on the transcript as graduate credits.

Whether or not these credits will be applicable toward a specific degree program will be determined by the appropriate department.

### **COURSE LOAD**

Graduate Students who meet any of the conditions below shall be considered Full-time Graduate Students, provided that the student advisory committee chair attests to satisfactory progress in the thesis or program.

1. Graduate Students who are enrolled for nine (9) semester hours of credit; or
2. Graduate Students who are (a) accepted to a Graduate Program and (b) enrolled for at least two (2) semester hours of Thesis credit; or

3. Graduate Students who are (a) accepted to a Graduate Program, and (b) working as full-time (defined as 20 hours per week) research assistants or teaching assistants AND (c) enrolled for at least three (3) semester hours of regular course credit or one (1) semester hour of thesis credit.

## MAXIMUM COURSE LOAD

The recommended maximum course load for a student who is employed for more than twenty hours a week will be nine (9) credit hours during a regular semester and six (6) credit hours during the summer session.

## COURSE NUMBERING SYSTEM

The numbering system for graduate courses and student's eligibility for graduate credit has been determined as follows:

### I. General Class-Level Designations

400G-499G Courses in this category may also be found in the Undergraduate Catalog. Graduate students may include up to 10 semester hours of these courses, designated by the letter "G" after the course number in work toward a graduate degree. Additional work beyond that required of undergraduates will be expected. No retroactive graduate credit will be given for a course in which the student registered for undergraduate credit. Under no circumstances can a course taken for credit as an undergraduate be repeated for graduate credit.

500-699 Courses in this category are primarily for graduate students. Qualified seniors may be allowed to enroll in graduate courses by special permission.

### II. Special Course Designations

- A. -90 Series: Special Project. Courses for individual students including special problems, special studies, and individual research (690 is for special project in lieu of thesis only).
- B. -91 Series: Seminar Courses. Courses in which the burden or research and preparation is on the students, and class activity is discussion-oriented.
- C. -92 Series: Practicum Courses. Guided work experience supervised by a qualified professor or project director to whom the student reports at regular intervals.
- D. -93 Series: Workshops. Courses administered by a group of specialists and dealing with various applied aspects of a discipline.
- E. -94 Series or on a trial basis: Special Studies. Special-category courses usually designed to be offered only once (e.g., a course by a visiting expert, a course designed for a specific group of students).
- F. -95 Series: Thesis. Independent research culminating in a major research paper or project (e.g., Master's Thesis).
- G. -96 Series: Creative Thesis (Art Program only). Independent creative work culminating in an original exhibition.
- H. -98 Series: Internship. A training, residency or intern program in which the student works in a technical or professional area under the supervision of an expert in the field.

- I. -99 Series: Independent Reading. A course of directed reading in a designated field or topic.
- J. 800 Series: The 800 series of courses are post baccalaureate, professional development courses for teachers. Admission requirements are (1) proof of a bachelor's degree and (2) proof of present employment as a teacher. No undergraduate may take an 800 course. Credit for an 800 course is not applicable to any degree nor can it be used for graduate credit. These courses may not be cross-listed with any other course. They shall appear on a separate transcript labeled "FOR PROFESSIONAL DEVELOPMENT."

## SPECIAL PROJECT COURSES

Students enrolling for 590 or 690 course credit must complete Special Project course forms which can be obtained from the Office of Admissions and Records or the Office of Graduate Studies. Students must first have the forms approved. After obtaining the required signatures, the formal registration and payment of required fees for these courses shall take place. If the course is to be used for graduation requirements, grades must be submitted by the instructor on the required deadline. In addition, the required contact hours must also be met between the student and the instructor for academic credit. No more than nine credit hours of 590 and 690 course work can be accumulated toward degree requirements. All other rules and regulations apply.

Students who have been accepted to Graduate School may register for Special Project and Internship Courses through the ninth week of a regular semester or the third week of a Summer Term. Graduate students must register for all other courses during regularly scheduled registration period and DROP/ADD period.

## CONFERENCE COURSES

Conference courses are not listed on the official semester or term class schedule. A Graduate student may enroll and study privately with the professor if the advisor, instructor, graduate program chair, appropriate academic dean, and Coordinator of Graduate Studies approve the justification for such enrollment.

Application forms for a conference course can be obtained from the Office of Admissions and Records. Students must first have the forms approved. After obtaining the required signatures, the formal registration and payment of required fees for these courses shall take place. If the course is to be used for graduation requirements, grades must be submitted by the instructor on the required deadline. In addition, the required contact hours must also be met between the student and the instructor for academic credit. All other rules and regulations apply.

## GRADING SYSTEM

A grade is given as recognition of a certain degree of accomplishment in a course and is to be interpreted as follows:

A+	[4.00]	Outstanding*
A	[4.00]	Excellent
A-	[3.70]	Very Good
B+	[3.30]	High Average
B	[3.00]	Average
B-	[2.70]	Low Average
C+	[2.00]	Below Average
C	[2.00]	Marginal
F	[0.00]	Failure
UW	[0.00]	Unofficial Withdrawal (see section on Withdrawal Policies and Procedures)

Students may re-register for courses in which they received a grade of C+ or below, or for courses which are over seven years old. In these instances, all grades will become part of the permanent record, but only the grade in the course in which the student has most recently registered will be computed in the total cumulative Grade Point Average (GPA).

Special Projects (690) and Thesis (695 and 696) use different grades. The usual grades listed above normally awarded for the completion of a course are not used for these courses. Grades of T (Terminated) and P (Passed) are given for thesis and special project courses.

\*An A+ grade is a qualitative grade difference from an A, but both grades carry the same quantitative points.

## **POLICIES AND PROCEDURES FOR “INCOMPLETE GRADES”**

Incomplete - An "I" may be given to a student who has failed to complete a small, but important part of the course if the reasons for the incomplete are justified in writing by the student and instructor to the Dean. To receive credit for a course marked "I", the student must satisfactorily complete the unfinished work by the end of one calendar year (or sooner as agreed by student and instructor) from the last day of the semester in which the student received the "I", with the exception of -690, -695 and -696 courses. Should the student fail to complete the specified work to the satisfaction of the instructor, no credit will be recorded and the symbol "I" will be changed to an "F" on the transcript. No request for time extension will be approved.

In exception to the above policy, all grades of "I" must be resolved prior to graduation. For those courses carrying an "I" for which a Change of Grade Form has not been submitted according to the policy for submission of grade for graduating students, or at the time of certification that degree requirements have been met, the "I" will change to an "F" and be used for the final calculation of the GPA.

The conversion to "F" does not apply to Special Project (-690 courses) or to Thesis (-695 or AR696 courses). In these cases, the grade of "I" will remain on the permanent record until a grade of “P” or “T” is received.

## **WITHDRAWAL POLICIES AND PROCEDURES**

Since the University must operate as efficiently as possible, and since withdrawal from courses usually occurs after it is too late for other students to take the place of those who have withdrawn, the University must adopt policies and procedures which will discourage withdrawals and encourage more careful selection of those courses which the student has maximum assurance of completing.

1. Admissions Office-Initiated Drop. The Registrar may administratively drop a student from any class for which he or she does not have the prerequisite courses, or exemption from the prerequisites, whether the student enrolls in such a class during the regular registration period or the drop/add period.
2. Student-Initiated Withdrawal: Students may withdraw from a class or classes during the first week of instruction of a regular semester and the first two days of a summer session without anything being recorded on their transcripts. From the second through the eighth week of instruction of a regular semester and from the third day of classes through the third week of a summer term, students may withdraw by filing a withdrawal form in the Records Office. This form must be signed by the student’s advisor. A “W” (indicating an official withdrawal) will be recorded. If students fail to file the withdrawal form, a “UW” (Unofficial Withdrawal) will be recorded. The “UW” will be calculated in the GPA in the same way as an “F.”

After the eighth week of instruction of a regular semester and after the third week of a summer session, students **may NOT** withdraw from individual courses without submitting to the Records Office a petition that has been approved by the relevant instructor and the advisor. Students

requesting a complete withdrawal from the University must file a withdrawal form available at the Records Office and obtain signatures.

When students leave the University or stop attending a class without carrying out their withdrawal according to this regulation, the administrative mark “UW” will be recorded unless the instructor submits an academic grade.

3. Probation/Suspension for Unofficial Withdrawal. Students who accumulate three or more unofficial withdrawals (UW), whether in one semester or in subsequent semesters, will be put on probation the following semester. Any "UW" received while on probation will be a violation of that status and will result in the penalties prescribed under the probation/suspension policy.

### **ACADEMIC PROBATION, SUSPENSION, AND DISMISSAL**

1. After completion of 12 credits of graduate courses, a graduate student who fails to maintain a cumulative GPA of 3.00 or better in all courses granted graduate credit at the end of a session, i.e., Fall, Spring or Summer, will be placed on ACADEMIC PROBATION for the following one full calendar year. Extension of the probationary year will not be granted due to an Incomplete (grade of "I").

The graduate student will be removed from probationary status when his/her cumulative GPA in all graduate courses reaches the required minimum of 3.00 or higher when computed at the end of a session, i.e., Fall, Spring or Summer. If the student does not attain the required cumulative GPA of 3.00 or higher at the end of the probationary period, i.e., after one full calendar year, the student will be SUSPENDED from the Graduate Studies and will not be allowed to enroll in courses granted graduate credits for one full calendar year.

2. Upon the recommendation of the graduate program chair, an individual suspended from the Graduate Studies may petition to the Academic Committee on Graduate Curricula for re-admittance. If the petition is approved, the student will be readmitted on a probationary status for one full calendar year and must raise his/her cumulative GPA to 3.00 or higher in all graduate courses within this period. Failure to attain a cumulative GPA of 3.00 or higher in courses granting graduate credits at the end of the probationary period will result in DISMISSAL from the Graduate Studies.
3. An individual whose petition for re-admittance to the Graduate Studies has been denied by the Academic Committee on Graduate Curricula may petition again for re-admittance after waiting one full calendar year. A second denial of a petition by the Academic Committee on Graduate Curricula will constitute permanent DISMISSAL from the Graduate Studies.
4. An individual who is SUSPENDED or DISMISSED may be allowed to enroll in undergraduate courses if he/she complies with undergraduate admission policies. Under no circumstance will the student be allowed to enroll in 400G, 500-, or 600-level courses.

### **STUDENT RESPONSIBILITY**

Graduate students are expected to know the requirements for the programs they plan to enter. Although the Office of Graduate Studies, the academic college for the degree, and the student's advisor will assist the student in every way possible, graduate students are expected to exercise mature initiative, both in determining their major areas of study and in obtaining faculty concurrence for their program.

The student should not accept advice contrary to clearly stated regulations. The student alone is responsible for meeting all requirements and for being familiar with academic regulations and degree requirements in this bulletin or other supplements.

In problems pertaining to Graduate Policies, the appeal is to the Academic Committee on Graduate Curricula (ACGC). Petitions will be in writing, will bear a history of the actions, and will give sufficient

information on which to base a decision. The Academic Committee on Graduate Curricula may call before it any appropriate persons and examine any appropriate documents. The ACGC recommends to the Dean or the Senior Vice President for Academic and Student Affairs whose decision is final.

## RELEASE OF INFORMATION

### FERPA - Annual Notice to Students:

## THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

### (F.E.R.P.A.)

Annually, University of Guam informs students of the Family Educational Rights and Privacy Act of 1974, as amended. This Act, with which the institution intends to comply fully, was designated to protect the privacy of educational records. The Family Educational Rights and Privacy Act (FERPA) afford students certain rights with respect to their education records. **These rights include:**

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the Office of the Registrar, the college dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will arrange for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write to the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. The following is considered "Directory Information" at the University and will be made available to the general public unless the student notifies the Office of the Registrar in person or in writing before the last day to add classes:

*Student's name, telephone number, mailing address, date and place of birth, major field of study, participation in officially recognized activities and sports, dates of enrollment, honors, awards, degrees completed and dates of degrees conferred, and institutions attended prior to admission to UOG.*

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University of Guam to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is: *Family Policy Compliance Office, U.S. Department of Education, 400 Maryland*

*Avenue SW, Washington, DC 20202-4605. Website: [www.ed.gov/policy/gen/guid/fpco/ferpa](http://www.ed.gov/policy/gen/guid/fpco/ferpa)*

## **NON-DISCRIMINATION**

The University of Guam does not discriminate on the basis of sex in the education programs or activities it conducts. Title IX of the Educational Amendments of 1972 prohibits discrimination in programs and activities such as admission of students and employment. The University prohibits discrimination on the basis of sexual orientation with regard to all matters under the authority and control of the University. Additionally, the University of Guam does not discriminate based on race, color, religion, national origin, or age. Inquiries concerning the application of Title IX to programs and activities of the University of Guam may be referred to the Director of Admissions and Records.

Sexual Harassment Policies and Procedures approved by the Board of Regents of the University for students and for employees will be implemented.

Furthermore, the University of Guam complies with Section 503 and Section 504 of the Rehabilitation Act of 1973 which prohibits discrimination against the disabled in all areas of employment. Vietnam Era Veterans and qualified special disabled veterans are likewise covered by the Vietnam Era Veterans Readjustment Assistance Act of 1974.

## **PERSONS WITH DISABILITIES / DISABILITY SUPPORT SERVICES (DSS)**

*Americans with Disabilities Act Office:* The University of Guam is committed to achieving equal educational opportunities and full participation for persons with disabilities by providing for services through the ADA Office. The ADA Office is located next to the Student Center and is headed by the Persons with (dis)Abilities Administrator (PDA) / ADA Coordinator. The intent of the ADA Office is to provide for the needs of students with disabilities by assuring they have nondiscriminatory access to all institutional programs and services as defined in the Americans with Disabilities Act (ADA) and other relevant laws for persons with disabilities, make a smooth transition to university life, foster independence, and facilitate self advocacy. This intent has evolved from the University's commitment to non discrimination for all persons in employment, access to facilities, student programs, activities and services. Achieving full participation and integration of people with disabilities requires the cooperative efforts of all of the Universities departments, offices, and personnel. To this end, UOG will continue to strive in achieving excellence in its services that are equitable and efficient to all its members.

*Service Description:* All ADA services must be directly requested of the coordinator at least 4 to 8 weeks in advance of a course, workshop, or activity for which the accommodation(s) is/are requested. The student must meet with the coordinator who would then arrange a meeting with the student and his/her respective ADA Office designee to assist them with his/her studies. The services provided to qualified students with disabilities include those with physical, mental, visual, hearing, speech, learning and temporary disabilities. An Individualized Education Plan (IEP) can then be initiated. This should be done before enrollment, in order to assess students needs and to coordinate appropriate services and accommodations. All services are provided based upon individual needs. In order to receive services, all students with disabilities must submit appropriate medical, psychological, or educational documentation to substantiate their need for services. Confidentiality of records is maintained. Upon the student's written release, the disabilities designee at each center can verify the disability and make recommendations for necessary accommodations. *Again, requests for accommodations should be made at least 4 to 8 weeks before classes begin.* Failure to request services in a timely matter may result in delay of services. Student schedules are done on a first-come, first-serve basis and the provision of services are determined on a case-by-case basis. All accommodations are subject to availability.

*Services Provided:* Students with disabilities may benefit from the following assistance if registered with the ADA Office.



*Adapted Testing:* Adapted testing assistance is required when students with disabilities need special equipment, readers, writers, proctors, additional test time, and/or an isolated environment in order to take course quizzes and exams, placement tests, CLAST, and standardized tests. Some students may also need alternate types of exams, e.g., oral, taped, large print, multiple choice, etc. According to federal and state regulations, students with disabilities must be provided reasonable testing accommodations when necessary.

*Letters to Professors:* Students may request in writing that the Americans with Disabilities Act Personnel write letters to professors regarding necessary classroom accommodations. Fact sheets on disabilities and testing accommodations are included with the letters. All students are encouraged to meet with their instructors prior to the semester to discuss classroom accommodations needed and are required to visit the ADA Office to request and register for services.

*Library Assistance:* Students who are physically unable to use the library may be provided assistance by calling (671) 735-2244/3 (v/tty).

*Notetakers:* Some students who have manual dexterity, visual, hearing, or learning disabilities may need notetakers in class. The ADA Office can provide this service upon request.

*Readers:* Students who are blind and students with learning disabilities may need readers to record class material or to read directly to the student.

*Academic Support Center/Tutors:* Undergraduate students with disabilities may use existing tutorial labs and services, which are available to all undergraduate students through the Trio Programs in the areas of English, mathematics, etc.

*Sign Language Interpreters:* Students with deafness and hard of hearing may need sign language interpreters to translate class lectures. Notetakers may be needed if student requires a sign language interpreter. All UOG interpreters must be seeking certification with the Registry of Interpreters of the Deaf (RID) organization. These higher education interpreters are also held to compliance with the policies and procedures outlined by the National Center on Deafness (NCOD), Western Region Outreach Center and Consortia (WROCC), California State University, Northridge (CSUN). The University of Guam works collaboratively with the National Center on Deafness.

*Special Equipment:* The University has the following adapted aids and equipment available to assist students with disabilities: tape recorders, telephone typewriters and closed captioned televisions. Other assistive technology devices are available for students with disabilities to buy at the Guam Systems for Assistive Technology (GSAT) located at UOG's Dean Circle.

*Building Accessibility:* Most campus buildings are accessible. Students with mobility limitations will be scheduled into sections of courses that are held in accessible buildings. A mobility attendant is available to assist students to and from classes. It is the obligation of ADA service recipient, faculty or administrators to inform the ADA of difficulties or concerns they are experiencing as soon as possible. All ADA decisions may be appealed within ten (10) working days from the date of the decision of the request for ADA services. Appeal Forms are available at the ADA.

**General Goals:**

1. To provide Disability Support Services (DSS) to qualified students with disabilities to ensure their unique educational needs are addressed.
2. To facilitate the educational process of students with disabilities by providing support staff.
3. To provide for developmental support programs to students with disabilities.
4. To act as a liaison to University faculty and staff concerning educational access in compliance with equity regulations such as the ADA.

For more information contact the Appropriate Representatives.

Americans with Disabilities  
Act Coordinator (ADA)

Guam Center of Excellence  
in Developmental Disabilities

email: [eeo-ada@guam.uog.edu](mailto:eeo-ada@guam.uog.edu)  
(671) 735-2271  
(671) 735-2243 (v/tty)

Education Research and Service  
Dr. Heidi E. San Nicolas, Director, Guam CEDDER  
(671) 735-2481

Equal Employment Opportunity  
Office (EEO)  
Ms. Beatrice Cruz, EEO Officer  
email: [eeo-ada@guam.uog.edu](mailto:eeo-ada@guam.uog.edu)  
(671) 735-2971

Enrollment Management  
and Student Services  
Dr. Julie Ulloa-Heath, Dean  
(671) 735-2290

**NOTE:** This Bulletin contains Graduate Studies policies and procedures. A complete list of policies for student services may be obtained from the Office of the Director for Enrollment Management and Student Services, Student Services Center.

## TUITION AND FEES

The Board of Regents establishes tuition and other fees at the University of Guam. University of Guam accepts MasterCard, VISA, and American Express credit cards. A non-refundable Application Fee must accompany all applications for admission. No application will be considered if the fee has not been paid, and the applicant will not be permitted to register for any course.

*NOTE: The charges listed in this bulletin are those in effect at the time of publication and are subject to change by the Board.*

### TUITION RATES

	<u>Cost Per Credit Hour</u>
Resident Tuition	\$176.00
Non-Resident Tuition	\$437.00

### RESIDENCY RULES

An applicant is initially classified as a resident or non-resident registrant for tuition purposes at the time an application and all supporting credentials have been received in the Office of Admissions. The classification is based upon information furnished by the student and from other relevant sources. A student may be classified as a resident student by providing documentation prior to the opening of the semester or term.

Complete the “Petition for Residency Student Classification” before the deadline of the semester or term you wish to enroll. Approved changes of status will become effective for the term or semester following the approval; they are not retroactive, and no refunds will be given.

### SENIOR CITIZENS

Persons 55 years or older are entitled to free tuition at the University of Guam, provided that he/she has been a resident of Guam for no less than five (5) years preceding enrollment (Public Law no. 24-151), and provided that they have been admitted to the University. Admission into a course shall be on a space available basis or, if course(s) is full, by permission of the instructor(s). A senior citizen may apply for admission as a regular student or as a non-degree seeking student. Registration is *scheduled* after the scheduled adjustment period (add/drop) of any regular semester. However, a Senior Citizen may opt not to participate in this program and instead enroll during any registration period provided that he/she registers on the assigned registration for her/his class level and provided he/she pays the required tuition and fees. For

assistance, contact the assigned coordinator at the Records Office. All admissions and enrollment requirements apply.

**OTHER SPECIAL TUITION**

- Graduate students who take undergraduate courses for any reason will be charged the graduate rate.
- The fee for Audit or for Credit-by-Examination is the cost that would be charged the student if the student enrolled for a regular class.

**FEES**

<u>Regular Semester (at time of registration)</u>	<u>Fall 2005/ Spring 2006</u>
Registration .....	\$12.00
Library Services .....	\$24.00
Athletics .....	\$24.00
Health Services .....	\$12.00
Student Activities .....	\$24.00
Student Services .....	\$44.00
Computer Fee .....	\$24.00
Internet* .....	\$44.00
Fieldhouse .....	\$17.00

*\*Internet with graphics for Fall 2005 and Spring 2006 is \$68.00.*

<u>Summer Session (at time of registration)</u>	<u>Summer 2006</u>
Registration .....	\$12.00
Library Services .....	\$24.00
Athletics .....	\$24.00
Health Services .....	\$12.00
Student Activities .....	\$24.00
Student Services .....	\$24.00
Computer Fee.....	\$24.00
Internet* .....	\$39.00
Fieldhouse .....	\$8.50

*\*Internet with graphics for Summer 2006 is \$58.00.*

Miscellaneous charges: In addition to the fees listed earlier in this section, the following charges are assessed when applicable:

Application fee (non-refundable)	
Must accompany all applications.....	\$49.00
Application fee for International Students .....	\$74.00
Cancellation Fees .....	
	(see Refund Regulations in this bulletin)
Change of Schedule Fee.....	
	(see Drop/Add fee below)
Check Service	
For each check that fails to clear .....	\$25.00
Drop/add fee (each form).....	\$-0-
Copy Charge .....	\$0.10
Field Trip Fee.....	Charges Vary
Graduation Fee .....	\$44.00
Graduation Reapplication Fee.....	\$24.00
Laboratory Fees on a per course basis .....	see schedule
Library Fines .....	Charges Vary

Lost or Damage Fee .....	Replacement Cost
Thesis Binding Fee .....	\$30.00

**Transcript Fee:** The University will only release transcripts to students who have met all their financial obligations. The first copy is provided free. Additional copies may be obtained at \$5.00 per copy. Students may obtain copies of their transcripts in one hour when necessary by paying a special service charge of \$20.00 in addition to transcript fees. (**Note:** The service charge is assessed per request, not per transcript. Example: if a student needs three transcripts and requests one-hour service, the total charges will be \$35.00; \$15.00 for three transcripts plus \$20.00 service charge.)

If a student's financial obligations have not been met, transcripts and other official records of the student will not be released by the Office of Admissions and Records, and the student will not be permitted to register for further courses. Further, the student will not be allowed to fully withdraw from the University until he/she completes payment. The University will charge interest of 8.5% per annum on all debts including returned checks. Matters relating to the student's financial obligations to the University should be referred to the Comptroller. The University reserves the right to send delinquent accounts to a collection agency that will require the student to pay additional fees and interest. The University also reserves the right to give information on delinquent accounts to credit bureaus and credit reporting agencies.

Members of the U.S. Armed Forces should consult their Education Office regarding support for tuition and fees.

**BOOKS AND SUPPLIES**

Books and supplies are available at the University Bookstore located in the Student Center and must be paid for at the time of purchase. The Bookstore will not accept charge accounts. The Bookstore accepts MasterCard, VISA, and American Express credit cards.

**REFUND REGULATIONS**

The University of Guam Board of Regents approved the Refund schedule below on April 18, 1996. Refund of tuition, when warranted, may be made in accordance with the refund schedule below. Tuition refunds will be honored only when the official withdrawal form has been submitted to the Business Office. No refunds will be given after the withdrawal periods listed below. Full tuition refund (100%) will be granted for courses canceled by the University.

**WITHDRAWAL PERIOD**

**Cancellation Fees:** If you register for a class and later decide to drop or withdraw from class(es), you will be charged a cancellation fee as follows:

<u>Regular Semester</u>	<u>Fall 2005 / Spring 2006</u>
Tuition before the first day of class.....	0%
Fees before the first day of class.....	0%
Tuition during the first week of class .....	5%
Fees before the first day of class.....	0%
Tuition after the seventh day of the semester .....	100%
Fees after the seventh day of the semester.....	100%
<u>Summer Session</u>	<u>Summer 2006</u>
Tuition before the first day of class.....	0%
Fees before the first day of class.....	0%

<i>Tuition</i> during the first week of class.....	5%
<i>Fees</i> during the first week of class.....	0%
<i>Tuition</i> after the seventh day of the semester.....	100%
<i>Fees</i> after the seventh day of the semester.....	100%

Students who are waiting for financial aid or have not yet paid for their tuition and fees are still financially obligated by the above regulations.

Students who do not officially drop or withdraw from class(es) within the time periods above and still owe tuition and fees, are liable for payment and will be billed accordingly. Therefore, it is crucial to officially drop or withdraw from class(es) in a timely manner.

**Note: There is a different schedule for Saturday classes. See the Business Office for details.**

If there are multiple class start days for the summer term, the refund policy for the above schedule will begin on the first day of the first class of the summer term.

Registration and Course Fees are not refundable except for courses canceled by the University. Refund checks will be mailed four to six weeks after a student drops a class or withdraws from the University.

## STUDENT RESOURCES

### COUNSELING SERVICES

The staff of Counseling Services provides professional counseling services to all students. These services are aimed at helping students understand and work on emotional and academic concerns that may prevent them from gaining the most from their university experience. Students are encouraged to visit the Counseling Services Office regarding any problems they have; efforts will be made to help them find effective solutions.

Students may take vocational interest inventories in order to gain a better understanding of their career potentials. The latest file on microfiche regarding university and college catalogs is available, as well as numerous educational and vocational resource materials. Also, applications are available for the GMAT, GRE, and many other standardized examinations required for admission to professional programs.

The offices are located in the Student Center. For information call 735-2233-34 or FAX: 734-3451.

### STUDENT HOUSING & RESIDENCE LIFE

The University of Guam has a Residence Life program providing comfortable on-campus housing for students. The University has two traditional style residence halls providing accommodations for up to 196 students in double occupancy rooms. Though two students generally share residential rooms, single rooms may be obtained for a premium when space is available.

Our residence halls are staffed by trained resident assistants (RAs) who are selected for their maturity and leadership. The RAs enhance the community life of the residence halls and the well-being of residents by coordinating co-curricular and extracurricular activities, competitions, and events.

Each hall is equipped with kitchen facilities for students to prepare their own meals, no meal plan is offered by the University.

Applications for housing may be obtained by calling the Office of Student Housing at (671) 735-2260, by emailing: [residence-life.uog@mailcity.com](mailto:residence-life.uog@mailcity.com), or by writing to the University at the following address:

Director of Student Housing  
University of Guam  
UOG Station  
Mangilao, Guam 96923

## FINANCIAL ASSISTANCE

Students who need financial assistance to pursue graduate programs are encouraged to take advantage of the various types of aid available at the University (for undergraduate student financial assistance programs, see the Undergraduate Catalog). Application forms and information may be obtained from the Financial Aid Office in the Fieldhouse. Financial aid can be categorized into major kinds as follows:

### I. U.S. Department of Education Programs (Federal Title IV Student Aid)

Special and Regular students, who do not possess a high school diploma or GED, are not eligible for federal financial aid, unless the student meets the “Ability to Benefit” criteria.

- A. College Work-Study: Part time employment on campus for eligible graduate students. Jobs pay a minimum of \$5.25 or more depending on the nature or complexity of the work. Students may work up to 20 hours per week. (Contact: Financial Aid Director)
- B. Stafford Student Loan: Low interest (8%) loans made to eligible undergraduate/graduate students by lending institutions deferred repayment until student graduates.
- C. William D. Ford Direct Student Loan: by U.S. Department of Education.
- D. Leveraging Educational Assistance Program Policy (LEAP): Grant aid for eligible undergraduate/graduate students based on unmet financial need.

NOTE: To maintain eligibility for the federal student aid programs, a student must be in good academic standing and be making satisfactory progress toward his/her degree. Please contact the Financial Aid Office for the specific program requirements.

Applications for these programs are available upon request from the Financial Aid Office, University of Guam, UOG Station, Mangilao, Guam 96923, or students can apply online via the web [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Application forms are generally available during February for the following academic year.

### II. Government of Guam Student Financial Assistance Program

The student Financial Assistance Program consists of the Government of Guam Professional Technical Award, Student Loan, and Merit Award. The Program is mandated by public law, implemented by the Board of Regents and administered by the Financial Aid Office, University of Guam. Deadline for application is April 30 for the Academic Year. Applications are available at the Financial Aid Office. There is a residency requirement. Contact the Financial Aid Office at 735–2287.

Dr. Antonio C. Yamashita Educator Corps Scholarship Program (YEC): The Program provides financial assistance to bonafide residents of Guam who are pursuing courses of study leading to either a Bachelor of Arts in Education or Master of Education in Administration and Supervision or in School Guidance and Counseling. YEC also supports those seeking an initial certification in teaching, counseling, and/or, administration and supervision through the Department of Education. Scholarship support comes in the form of monthly stipends, payment of tuition and fees, and an allowance for books and supplies. The announced application cycles for the year allow for the entry of new recipients at the start of the Spring, Summer, and Fall semesters. Prospective scholarship recipients may acquaint themselves with the established requirements for application by way of our published program brochure or by addressing their inquiries to any of the YEC staff. Our office is located on the west side of the School of Education building room 119 and we are open for

business Mondays through Fridays, 8:00am~12:00pm and 1:00pm~5:00pm. For additional information call 735-2470/71.

**III. Individual Graduate Programs**

Specific scholarships or assistantships may be available through the Financial Aid Office. Teaching or research assistantships may be available in some areas through the appropriate colleges, units, or divisions of the University.

**VETERANS AFFAIRS**

The University is approved for the training of veterans and their dependents under educational guidelines established by the Federal Government. Authorization for training under all federal laws must be obtained from the Veterans Administration through its regional office at P.O. Box 50188, Honolulu, Hawaii 96850. For further information contact the Financial Aid Office.

**STUDENT HEALTH SERVICES**

The Student Health Service is an outpatient ambulatory health care clinic. Part-time licensed physicians, a registered nurse, a license practical nurse, and two office assistants staff the Health Center.

The Student Health Service offers basic medical care for most illnesses and injuries and various elective services on campus. Consultations with a Physician or Registered Nurse are available through appointment, referrals or Walk-In Clinic.

Student Health Service hours of operation are 8:00 a.m. to 5:00 p.m. Monday through Friday.

**Physician Clinic Hours:**

Monday	2:30 p.m. – 4:30 p.m.
Tuesday	10:00 a.m. – 12:00 p.m.
Wednesday	12:00 a.m. – 2:00 p.m.
Friday	2:30 p.m. – 4:30 p.m.

**Walk-In Hours:**

Monday – Friday	9:00 a.m. – 4:00 p.m.
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**Eligibility Requirements: All registered students have full access to Student Health Service.**

The Student Health Service provides services for the campus community, which benefit students. Clients can expect the very best medical attention at the Student Health Service. Our physicians are experienced in all areas of primary care, emergency, internal, sports, and travel medicine.

Some of these services include: Medical Clinic (Unlimited MD/RN Visits), Women’s Health, Men’s Health, Travel Clinic, Specialty Services, immunization, Pharmacy, laboratory, and Wellness.

**Student Health Service also has additional roles and responsibilities, such as:**

- Providing public health role by providing immunizations
- Assisting in preventing the spread of communicable diseases
- Participating in campus Emergency First Aid response
- Participating in Campus Disaster Planning and Response

Student Health Insurance coverage is now available. International students are required to utilize the Student Health Service. Students who are not currently insured are encouraged to purchase the student health insurance plan (Associated Insurance Plans International, Inc.).

Records are maintained to document the services provided.

**Office Visits:** Appointments may be made by phone (671) 735-2226 or in person during office hours. Students are encouraged to schedule appointments for their non-urgent health care needs. Fifteen or thirty minute appointments may be made to see a physician.

**Women's Health:** Women's Health care provides physical examinations, pap smears, treatment of gynecological problems, family planning, testing for sexually transmitted diseases, pregnancy testing and referrals. Referrals and assistance with appointment scheduling for annual mammography screening is also provided.

**Walk-In Clinic:** The Walk-In Clinic is for same day care of recent onset medical problems. It is on a first come, first served basis, except for urgent care cases, which take priority. Therefore, waiting time for Walk-In Clinic may vary. If you have a complicated medical problem that needs more time, you may be best served by making an appointment. Should you have more than one problem, the more urgent illness or injury will be dealt with first, and you may be asked to make an appointment to allow more time for handling your other medical needs.

**Nurses Clinic:** Eligible students may obtain blood pressure measurements, vision testing, allergy injections, TB skin tests, and more, through the Nurses Clinic. Appointments for the Nurses Clinic can be made in person or by phone with the receptionist.

**Immunizations:** All new and transfer students are required to present proof of immunity to measles and rubella. Immunity can be demonstrated by presenting a certificate of immunization, proof of having had both diseases, or evidence of antibodies to the diseases. The Student Health Service offers other immunizations through the Nurses Clinic.

**Pharmacy:** One of the best deals on campus is most medications are dispensed free and some for considerably less than retail cost. Prescriptions prescribed from outside physicians will not be filled. A number of over-the-counter products such as condoms, cough syrup, aspirin, antacids, and more are also available.

**Laboratory:** The Student Health Service performs basic laboratory work including urinalyses, urine pregnancy tests, and blood sugar count. Those laboratory services that cannot be performed in-house are sent out for processing and will cost a nominal fee. Examples are: cholesterol measurements and chemistry panels. Frequent tests performed include sexually transmitted disease screening, pregnancy testing, pap smears and more.

**Specialty Services:** Appointments for the Specialty Clinics are available to all eligible students by referral from our Student Health Service providers. The Specialty Clinic is staffed by Board Certified Professionals in Internal Medicine.

**Wellness Program:** The Student Health Service offers several prevention services for students. Campus AIDS/HIV Resources Education Support and HIV Testing are examples of some important services. Health education is provided by professional staff, self-held educational videos, pamphlets, and more.

**Health Insurance:** The Student Health Service strongly recommends that students purchase some type of health insurance coverage. Several insurance plans are offered which cover injuries and sicknesses. Brochures and application forms are available at the Health Service Office.

For additional information, the Student Health Service Office may be reached by calling phone numbers 735-2225~26.

## **STUDENT LIFE**

The University offers many activities for the students. Some activities are sponsored by the University itself, while others are sponsored by various clubs and organizations. Each student has the opportunity to participate in over 30 organizations. Students interested in joining these clubs or starting new



clubs are encouraged to see the Student Life Officer who is responsible for supervising publications, activities, and orientation for new students each semester, as well as other programs.

## COMPUTER FACILITIES

The Computer Center provides computer services to the University community, particularly its administrative, instructional and research needs. The Center will provide computer services to the community as resources are available. A Computer Lab, with terminals and micro computers at the Center, is open to the University community, and can be arranged for faculty and staff to use 24-hours a day and 7-days a week. Communication lines and microcomputers are also set up to access on/off campus networks and data bases.

The Computer Center also has an Internet node, provides an Internet gateway for various agencies and serves as Internet domain administrator for the region.

The College of Business and Public Administration maintains 2 computer laboratories for teaching and student use. The College of Education, Curriculum Resource Center includes microcomputers for teacher training, and College of Arts and Sciences maintains computer laboratories for mathematics and science courses.

## LIBRARIES

The Robert F. Kennedy Memorial Library is physically and figuratively the educational center of the University of Guam and is the largest library in the Western Pacific region. At the beginning of fiscal year 2001, the library held 100,182 volumes (72,634 titles), 133,207 serials (2,010 titles), and nearly 900,000 items in microfilm or microfiche formats. The library is fully automated with a recent version of DYNIX, an integrated library software system, and has Internet access and word processing workstations. Recently, the library has embarked on enhancing the print and non-print collections and the Board of Regents approved special funding for collection development. The Director of Learning Resources heads the library and the Instructional Media Services units.

Learning Resources specifically supports graduate studies and research through the use of both print and electronic sources. Reference holdings, for example, include the complete run from 1851 to 2001 of the New York Times Index, and the accompanying microfilm, as well as many up-to-date general and specialized indices and abstracts. Electronic access features Internet links with JSTOR and EBSCO *host* with full-text search capability for over 1,250 journals—of which a growing number have the option of full-page graphics (PDF) to reproduce illustrations, graphs, charts and formulas. In addition, the library has extensive interlibrary electronic contacts and routinely requests and receives full-text original format copies through document and journal delivery systems, such as Ariel and Loansome Doc, or via interlibrary loan with the University of Hawaii or major libraries throughout the world. An experienced professional Librarian is available at the Reference Desk to assist students and faculty with inquiries or bibliographic research.

Special collections within the library include the extensive Federal Depository Library of United States Government Documents on the mezzanine, the Micronesian Resource Files near the Reference Desk, Curriculum Resources Center on the second floor, and the East Asian Collection near the entrance lobby. The 54,200 square foot library building also features study space for 400 readers, special areas for Internet access, word processing computers, six seminar rooms, and a 24-hour study area. The Instructional Media Services wing of the building houses three audiovisual classrooms and provides multimedia equipment, videos, and audiovisual assistance to the faculty. Other library entities are the Pacific Basin Maternal and Child Health Resource Center.

Guam also offers additional bibliographic access and resources for graduate students, such as the Richard F. Taitano Micronesian Area Research Center, Guam Community College Library, Guam Department of Education Learning Resources Center, Guam Public Library System, and the Guam Territorial Law Library, as well as hospital medical and military base libraries. The Interlibrary Loan section can assist in facilitating access to these institutions for appropriate research projects.

During the academic year, Learning Resources facilities are open from 8:00 AM to 8:00 PM, Monday through Thursday, with daytime only hours on Fridays and Saturdays. Hours will vary in the summer or for intersession and are posted at the entrance. For additional information, telephone the Circulation Desk, (671) 735-2310, the Reference Desk, (671) 735-2341, or view the library's Internet home page at [www.uog.edu/rfk](http://www.uog.edu/rfk).

## **CAREER DEVELOPMENT OFFICE**

The Career Development Office (CDO) offers students and alumni assistance in job placement and for suitable positions in their career areas. The office is committed to helping develop self-direction and personal responsibility in the career decision-making and job search process. CDO is open to all UOG students and alumni. The following programs and services are offered year-round.

**Job-Search Skills:** Books, workshops, and videotapes are available to introduce students to résumé writing, letters of application, other correspondence, and interview techniques. Workshop schedules are posted at the CDO office, where registrants may sign up to participate. Each student and alumnus may submit a résumé for critique by the CDO Officer.

**Employment Opportunities:** The listing of current job openings is maintained and includes full- and part-time jobs; off- and on-campus student jobs; and local, national, and international employment. Students and alumni may also interview with local, mainland, and overseas employers who visit the campus. Interview schedules are posted on CDO Bulletin Boards at the Student Center and are published in the UOG *Triton's Call* student newspaper.

**Career Services Library:** Researching an employer's organization is essential in a career search. The CDO library provides employer recruiting literature, employer directories, annual reports, and other publications on job market conditions and trends, employer expectations, and salaries. Also available are employment vacancy listings from local, national, and international businesses, military, government, and other organizations.

**Other Services:** Special career programs, including career fairs, mock interviews, clothing and appearance workshops, panels with representatives from government, outreach presentations to student organization, and classes, are available throughout the year.

Personal conferences with the CDO may be arranged to review student and alumni goals, plans, qualifications, career alternatives, the job market, employer information, educational requirements, and other career concerns.

Credential files, i.e., letters of recommendation, may be established to assist in graduate school applications or academic employment. Credentials will be mailed directly to an organization or institution upon request.

## **OFFICE OF ADMISSIONS & RECORDS**

The University of Guam Office of Admissions and Records mission is to provide efficient, timely and personable service to students, the campus community, and outside agencies; to consistently and fairly implement local, federal, and institutional credibility through the proper maintenance of the student academic transcript.

Graduate students may request for the following services from this office: official transcripts, graduation application, change of name or address, certification of enrollment, grades, student Id & PIN, and the distribution of student schedules and course offerings.

Ms. Deborah Leon Guerrero, Registrar

Monday - Friday, 8am-5pm

735-2207, 735-2203 (fax)

[admitme@uog9.uog.edu](mailto:admitme@uog9.uog.edu)

[www.uog.edu](http://www.uog.edu)

## RESEARCH INSTITUTES

The University of Guam has eight (8) formally constituted research and development institutes or laboratories:

### ***CANCER RESEARCH CENTER – GUAM***

Dr. Harold L. Allen, Principal Investigator, Ph: (671) 735-2988/2989 FAX: (671) 734-2990  
CRCG website at [www.uog.edu/cancer](http://www.uog.edu/cancer) , UOG Dean's Circle House #7.

The Cancer Research Center of Guam was established in September of 2003 as a research partnership between the University of Guam and the Cancer Research Center of Hawaii. The partnership is one of a handful of minority institute/cancer research center partnership funded by the National Institute of Health, National Cancer Center.

The partnerships objective is:

- To increase the cancer research capabilities in a variety of different disciplines at the University of Guam.
- To increase the number of minority scientist of Pacific Islanders ancestry engaged in cancer research or other related activities by providing pertinent undergraduate, graduate, post-graduate training opportunities.
- To provide career development for cancer investigators at the University of Guam in order to develop and sustain independently funded cancer research program at the University of Guam.
- To further strengthen the focus of research, training and outreach activities at the Cancer Research Center of Hawaii on the disproportionate incidence, mortality, and morbidity in minority population by including the Territory of Guam into the region served by CRCH.
- To ultimately reduce the impact of cancer on the population in the Territory of Guam (and possibly other U.S. affiliated island in the Pacific Region) by enhancing the awareness of cancer prevention opportunities and improving the quality of care for cancer patients.

### ***INSTITUTE FOR MICRONESIAN HEALTH AND AGING STUDIES (MHAS)***

Roy Adonay, Acting Associate Director, Ph: (671) 735-2680; FAX: (671) 734-8379

This institute provides the framework for faculty-initiated health and aging research. Faculty members write and submit grant proposals to the various departments of the National Institutes on Health (NIH, NIA, NCI, etc.), the National Science Foundation (NSF), and private charitable foundations. The quest for federal and other funding is important for several reasons. The projected increase of the senior populations on Guam between 1980 and the year 2003 is 141 percent and similar increases can be measured throughout Micronesia. The long-held belief that the seniors of Guam and the other islands are taken care of in all their needs by the extended family is no longer true. Westernization has shifted the disease patterns from infectious diseases commonly found in the less developed countries to the chronic diseases experienced by the industrialized nations. Certain endemic conditions of the indigenous population are still puzzling local, national, and international researchers; finding the etiology of these diseases might hold the answer to neurological and other chronic diseases world-wide.

### ***MARINE LABORATORY***

Barry Smith, Director; Ph: (671) 735-2182; FAX: 734-6767;  
E-mail: [bdsmith@uog9.uog.edu](mailto:bdsmith@uog9.uog.edu)

The University's Marine Laboratory, established in 1970, is a research, teaching and service facility located on the shore of Pago Bay below the main campus. The research focus of the Marine Laboratory is in the area of tropical reef studies. Basic research is conducted by individual staff members in their specialty areas (ichthyology and fisheries biology, evolutionary ecology, population genetics of marine organisms, marine biogeography, general invertebrate zoology, coral physiology and larval ecology, chemical ecology of reef organisms and natural products chemistry, community ecology and species interaction). Applied research is conducted in aquaculture and tropical fisheries. Services to the community include environmental impact surveys, studies relating to coastal zone management, and pollution research. The Marine Laboratory students have donated their time and given lectures and tours for many diverse interest groups and thousands of school children.

Research projects are concentrated on Guam but often reach out into the Commonwealth of the Northern Mariana Islands, the Republic of Belau, the Federated States of Micronesia, Republic of the Marshall Islands, and other regions of the Indo-Pacific. Professional publications presently number more than 450.

The Laboratory consists of three buildings. Research, office space and a computer lab are located in the 19,000 square-foot, two-floor research wing. The wing features a flowing seawater system with a direct input of ocean water. The southern portion of the new Water Sciences Building provides space for three additional offices, a synoptic collection of Micronesian marine organisms (966 ft<sup>2</sup>), a molecular genetics laboratory, and a confocal microscope room. The 3,264 ft<sup>2</sup> technical wing provides workshop facilities and maintenance and storage space for routine research instrumentation, boats and diving gear. A broad range of laboratory and field equipment is available. Housing facilities for visiting scientists are available.

### ***RICHARD F. TAITANO MICRONESIAN AREA RESEARCH CENTER (RFT MARC)***

Dr. Dirk Ballendorf, Director; Ph: (671) 735-2154; FAX: (671) 734-7403;  
E-mail: [ballendo@uog9.uog.edu](mailto:ballendo@uog9.uog.edu)

The three-fold mission of the Richard F. Taitano Micronesian Area Research Center (RFT MARC) includes resource collection development, research, and service. Since its establishment in 1967, RFT MARC has developed a major collection of Micronesian and Pacific area materials. The RFT MARC Collection is located in the RFT MARC/Computer Center Building, and includes books, manuscripts, periodicals and serials, government documents, personal papers and archives, reprints, and maps. The Collection includes especially strong holdings of Spanish materials in both full-size and microform reproductions, reflecting the lengthy presence of Spain in Micronesia. In addition to the written materials, there are important holdings of audiovisual materials, including slides, photographs, cinema film, video cassettes, and musical scores relating to the cultural and historical heritage of the area. The Collection is a non-circulating reference collection, open to the public.

The research program at RFT MARC is closely integrated with the Collection. RFT MARC research faculty produces transcriptions, translations, and analytic bibliographic listings of important Spanish, German, French, Japanese, and other foreign language documents in the Collection. In addition to archival and historical research in the Collection, RFT MARC faculty have conducted research in the fields of anthropology, archaeology, history, education, political science, sociology, economics, and primatology. The service role of RFT MARC is performed through its program of publishing, teaching, public lectures, and coordinating campus events related to Guam and the Pacific. RFT MARC has published more than 120 titles of scholarly importance during the three decades of its existence. RFT

MARC faculty and staff also provide community services through consultation and cooperation with government agencies and community organizations.

***MICRONESIAN LANGUAGE INSTITUTE (MLI)***

Rosa Palomo, Acting Director, Ph: (671) 735-2193; FAX: 734-0165;

E-mail: rpalomo@uog9.uog.edu

The Micronesian Language Institute (MLI) was established at UOG in May 1990 and began full operations in December 1991. The purpose of MLI is to conduct research, service, and teaching activities that enlarge our understanding of the indigenous languages of Micronesia, and promote appreciation, documentation, instruction, the creation of new materials, and further development of Micronesian language resources.

MLI's work is guided by an eight person Regional Advisory Council, consisting of members representing Guam, the Republic of the Marshall Islands, the Federated States of Micronesia (Chuuk, Kosrae, Pohnpei, and Yap), the Republic of Palau, and the Commonwealth of the Northern Mariana Islands. Each Council member is an indigenous Micronesian language expert. A diverse selection of language research and service activities are underway, developed either in response to specific needs identified by governments and agencies within the Micronesian region, or because they are specialty areas of MLI professionals.

***WATER AND ENVIRONMENTAL RESEARCH INSTITUTE OF THE WESTERN PACIFIC (WERI)***

Dr. Leroy Heitz, Director, Ph: (671) 735-2691; FAX: 734-8890;

E-mail: lheitz@uog9.uog.edu

The Water and Environmental Research Institute of the Western Pacific was established as a research unit of the University of Guam in May 1975. The role of the Institute is to provide water and environmental resources information by conducting basic and applied research in an interdisciplinary environment, by teaching, and by disseminating research results.

Consistent with the regional role of the University, the Institute devotes part of its program effort to Western Pacific islands other than Guam. It is the only research center of its type in this geographic area and endeavors to respond to the unique conditions that exist here. The Institute works closely with an Advisory Council composed of representatives of water and alternate energy related agencies from the Western Pacific area.

Water resources research is inherently multidisciplinary and includes all the water- and environmental-related areas of engineering as well as other areas such as biology, chemistry, economics, law, geology, anthropology, climatology, and meteorology. In order to undertake research of this nature, the Institute draws from the varied expertise of its research faculty members, other University of Guam faculty, research affiliates from other universities, and local professionals. In November of 1991 the Institute officially became the first Regional Institute of the Western Pacific. This designation has opened a broad new spectrum of regional research and service opportunities for the University of Guam.

***AGRICULTURAL EXPERIMENT STATION (AES)***

Dr. Lee Yudin, Dean, College of Natural and Applied Science and Director of the Agricultural Experiment Station; Ph: (671) 735-2000; FAX: 734-6842; E-mail: lyudin@uog9.uog.edu

The Agricultural Experiment Station of the College of Natural and Applied Sciences is the agricultural research facility for the University of Guam. Four field facilities located at Inarajan (10.6 acres), Barrigada (30 acres), Ija (65 acres) and Yigo (47 acres) are in operation. Current research areas include horticulture (vegetable, fruits, ornamentals, and turf grass), soils, entomology, plant pathology,

agricultural engineering, aquaculture, agricultural economics, and animal science. Most of the research projects are funded by the Cooperative State Research Service, Education and Extension Service, USDA, authorized by the Hatch Act and the local government. Some projects are funded by Tropical and Subtropical Agricultural Research under Special Research Grants, and the Western Regional Research Program of the USDA. Research projects in the Agricultural Experiment Station are of applied nature, directed towards solving agricultural and environmental problems in Guam and the Western Pacific.

The Station has active cooperative research programs with other Land-Grant Universities, South Pacific Commission, Asian Vegetable Research and Development Center, program on Nitrogen Fixation by Tropical Agricultural Legumes, Commonwealth Institute of Biological Control, International Benchmark Sites Network for Agrotechnology Transfer, Soil Management and Support Services, the United Nations Food and Agricultural Organization, Smithsonian Institution, Department of Defense, Department of Interior, Center of Tropical and Subtropical Aquaculture, and the United Nations Development Program.

***GUAM CENTER OF EXCELLENCE IN DEVELOPMENTAL DISABILITIES  
EDUCATION, RESEARCH AND SERVICE (GUAM CEDDERS)***

Dr. Heidi Farra-San Nicolas, Director, Ph: (671) 735-2481; FAX: 734-5709;

E-mail: [heidisan@uog9.uog.edu](mailto:heidisan@uog9.uog.edu)

Guam Center of Excellence in Developmental Disabilities Education Research and Service (Guam CEDDERS) at the University of Guam is one of sixty-six federally-funded Centers across the nation (formally authorized by federal P.L. 103-230 as UAPs). The Center's mission is to "create pathways that enhance, improve, and support the quality of life of individuals with developmental disabilities and their families."

Guam CEDDERS is charged with the responsibility of facilitating a wide variety of interdisciplinary training activities at the pre-service, in-service, and community-based levels that enable professionals, service providers, families, and individuals with disabilities opportunities to expand knowledge, skills, and abilities. In addition, Guam CEDDERS provides technical assistance and community outreach; direct service through Guam System for Assistive Technology (GSAT) and the Guam Early Intervention System (GEIS); and research and dissemination.

In addition to these, each college has significant research enterprises underway. For example, a major part of the mission of the College of Natural and Applied Sciences is the operation of the Agricultural Experiment Station. In the College of Professional Studies, research and development engagement is found in the Sustainable Development Institute and major grants associated with the School of Education (e.g., GEAR-UP) and the School of Nursing, Social Work, and Health Sciences. Individual faculty in each academic college have important and active research programs and creative endeavors. For more information, the deans of the colleges should be contacted: Dr. Mary L. Spencer, Dean, College of Liberal Arts and Social Sciences, e-mail: [mspencer@uog9.uog.edu](mailto:mspencer@uog9.uog.edu); Dr. Lee Yudin, Dean, College of Natural and Applied Sciences, e-mail: [lyudin@uog9.uog.edu](mailto:lyudin@uog9.uog.edu); Dr. Sheying Chen, Dean, College of Professional Studies, e-mail: [schen@guam.uog.edu](mailto:schen@guam.uog.edu).

Student research and teaching assistantships, and career-building research opportunities are available through the research institutes and in association with individual faculty research programs.

## **PUBLICATIONS**

***MICRONESICA*** is a refereed journal in the natural sciences. It includes original research in the fields of archaeology, physical and medical anthropology, anthropological linguistics; systematic and ecological botany and zoology, agricultural sciences, marine sciences, and related disciplines concerned primarily with Micronesia and adjacent Pacific islands. It is normally published twice a year with irregular Supplements. Contents and abstracts of current issues, indexes of past issues, etc., on web site:

<http://www.uog.edu/up/micronesica/index.html>. Call 735-2852 to purchase or subscribe.

***ISLA: A Journal of Micronesian Studies*** is a University of Guam Press publication that dates from 1991 to 1996. It was a refereed periodical devoted to publishing original research, analytical essays, and other articles about Micronesia. The Journal published material from many perspectives, including anthropology, commerce and economics, geography, education, health, history, linguistics, political science, psychology, sociocultural anthropology, and sociology. Call 735-2852 to purchase issues of *ISLA*.

***The Micronesian Educator*** is a refereed journal of educational research and practice published annually by the School of Education. The journal invites contributions from researchers and practitioners which offer insights and understandings about education in Guam and Micronesia. The journal serves as a forum in which to share current research, theoretical perspectives and innovative practices in education with a particular focus on this region.

***Storyboard: A Journal of Pacific Imagery*** is a multilingual journal with a focus on Pacific writing. It publishes quality poetry, fiction, and non-fiction written in English or any other Pacific Region language with translations into English, as well as appropriate art. Micronesian writers and artists are particularly encouraged to submit material. It is normally published once per year by the Division of English and Applied Linguistics, College of Arts and Sciences. For more information, contact Dr. Minka Barton, Editor, [minkabarton@hotmail.com](mailto:minkabarton@hotmail.com).

***Coral Reef Newsletter***, an international bulletin sponsored by the Pacific Science Association, is also issued twice a year. Various publications of the Richard F. Taitano Micronesian Area Research Center and the College of Natural and Applied Sciences are also produced by University faculty and staff.



**MASTER OF ARTS IN ART**  
**Program Chair: Lewis Rifkowitz**  
**Fine Arts Bldg., Room FA-202A**  
**Telephone 735-2716; e-mail: [rifkowitz@uog9.uog.edu](mailto:rifkowitz@uog9.uog.edu);**  
**[lrifkowitz@kuentos.guam.net](mailto:lrifkowitz@kuentos.guam.net)**

## OBJECTIVES

The College of Liberal Arts and Social Sciences, with faculty from the Fine Arts Program, offers courses for the degree of Master of Arts in Art with the option of concentrating on Painting, Graphics, or Ceramics, including pottery and sculpture, or combined media. Intellectual advancement of the graduate student, development of initiative, research technique, advanced skill and proficiency, and designing enthusiasm are the goals of the program.

## FACULTY

*RIFKOWITZ, Lewis S.*, Associate Professor, Art  
*BABAUTA, Jose J.*, Associate Professor, Art

## DEGREE REQUIREMENTS

Prospective candidates for the M.A. in Art must submit a portfolio (slides or original work) of ten (10) or more examples of recent work and a copy of undergraduate transcripts to the graduate program chairperson of the Fine Arts Program. In addition, at least two (2) letters of recommendation must be submitted from persons competent to discuss the applicant's work.

Interested students must first obtain admittance to the Graduate Studies of the University of Guam. They must then seek admission into the Visual Art graduate program.

The candidate for an M.A. in Art must complete a minimum of 30 semester hours in Art. These should be accumulated from the chosen area of concentration, art history and related electives within the graduate course offerings of the Fine Arts Program. In certain circumstances appropriate graduate courses from other disciplines may be submitted with the approval of the student's advisor, the graduate program chairperson of the Art program, and, if applicable, the college dean.

Normally under the program the candidate will be required to prepare and mount an exhibition of recent creative endeavors (AR696), accompanied by an illustrative statement which includes a detailed discussion of the artistic problems involved in the exhibition. In the final oral examination the student will be required to explain and be prepared to answer questions concerning this exhibition and statement, and to demonstrate a general knowledge of his/her field.

The student's exhibition committee will be selected using criteria analogous to the ones used in selecting the traditional thesis committee. These criteria may be obtained from the student's advisor.

If, however, the candidate has a particular research interest, the traditional thesis may be undertaken. It is suggested that research foci be placed in the area of Pacific Arts studies or Far Eastern Art.

**COURSE REQUIREMENTS - (30 CREDIT HOURS MINIMUM)**

**Required Studio Courses; select from: ----- 9**

- AR504 Graduate Ceramics (3)
- AR505 Graduate Ceramics (3)
- AR508 Graduate Sculpture (3)
- AR509 Graduate Sculpture (3)
- AR550 Graduate Painting V (3)
- AR551 Graduate Painting VI (3)
- AR554 Printmaking I (3)
- AR555 Printmaking II (3)

**Required Art History Courses; select from: ----- 6**

- AR590 Problems in Professional Practice (3)
- AR592 Practicum (3)
- AR593 Workshop (3)
- AR594 Special Studies (3)
- AR599 Independent Reading (3)
- AR691 Seminar (3)

**Required Final Project: ----- 3 or 6**

- AR695 Thesis (6), or
- AR696 Creative Thesis (3)

**Electives: ----- 9-12**

Selected with the approval of advisor.

**TOTAL ----- 30 CREDIT HOURS**

**MASTER OF ARTS IN COUNSELING**  
**Program Chair: Dr. Margaret Artero**  
**School of Education Bldg., Room 210L**  
**Telephone: 735-2440; e-mail: maretro@uog9.uog.edu**

## OBJECTIVES

The College of Professional Studies, School of Education offers a Master of Arts Program designed to prepare graduate students for advanced roles in the field of School or Community Counseling. This program includes theory, research, and an intense supervised practicum and internship. In the electives, graduate students may choose additional depth in the counseling areas of either research or practice.

## FACULTY

*ARTERO, Margaret Torres*, Associate Professor, Counseling/Curriculum and Instruction

*FEGURGUR, Mary*, Assistant Professor, Counseling

*KANE, Stephen*, Assistant Professor, Counseling

### Prerequisite:

1. Meet all University requirements stated under Academic Regulations, including a score of 900 or better on the Graduate Record Exam and a minimum of 3.00 undergraduate GPA.
2. Six (6) units of upper division psychology including Abnormal Psychology.
3. Write a statement of accomplishments, interests, and goals relating to counselor education. This statement will be submitted to the program Faculty who will then conduct an admissions interview. Entry into the program is contingent on passing this interview. The Counseling Program trains students to work with children and adults in both public and private settings. Because they deal with very sensitive personal issues, it is crucial that those who are admitted and graduated from this program have integrity, competency and uphold the ethical codes of the American Counseling Association and the American Psychological Association. For this reason, the M.A. Counseling Program faculty will conduct an admissions interview.

### Continuing Requirements:

1. Annual student performance evaluations of competency to continue throughout the program.
2. Maintain minimum of 3.00 GPA for all coursework in the program. Graduate courses with grades less than a B require written program faculty and administration approval to continue in the program.

**COURSE REQUIREMENTS:**

**Core Courses ----- 6 credits**

- ED600 Issues and Philosophies in Culturally Diverse Schools (3)
- ED601 Introduction to Research Methods (3)
- or
- PY413G Research Methodology in the Behavioral Sciences (3)

**Area of Specialization ----- 33 credits minimum**

- ED619 Introduction to Counseling (3)
- ED620 The Counseling Process: Theory (3)
- ED621 Counseling Process: Individual Practice (3)
- ED622 Group Counseling (3)
- ED623 Dynamics of Individual Behavior (3)
- ED624 Individual and Group Assessment (3)
- ED625 Multicultural Counseling (3)
- ED692 Practicum in Counseling (3)
- ED690 Special Project in Counseling (Practice Emphasis)  
(May be repeated for a maximum of 6 credits)
- ED695 Thesis (Research Emphasis) (6)
- ED698a Internship in Counseling I (3)\*
- ED698b Internship in Counseling II (3)\*

\*NOTE: ED698a&b can be taken concurrently

**Comprehensive Written Examination. Annual Performance Review.**

**Electives: ----- 9 credits**

**EMPHASIS:**

**I. PRACTICE:**

- ED626 Prevention and Outreach (3)
- ED627 Career Counseling (3)
- ED628 Family Counseling (3)
- ED629 Psychological Testing (3)
- ED674 Lifespan Transition Counseling (3)
- ED675 Group Counseling Practicum (3)
- ED699 Special Topics in Counselor Education (3)

**II. RESEARCH:**

- ED602 Qualitative Inquiry in Education (3)
- ED603 Quantitative Analysis (3)
- ED699 Special Topics in Counselor Education (3)

or

Any graduate course from either emphasis track, or advisor-approved Psychology and related program.

**TOTAL ----- 48 CREDIT HOUR**

## **MASTER OF ARTS IN MICRONESIAN STUDIES**

**Program Chair: Dr. Harley Manner**

**HSS Bldg., Room 209**

**Telephone: 735-2874; e-mail: [hmanner@uog9.uog.edu](mailto:hmanner@uog9.uog.edu)**

### **OBJECTIVES**

The Master of Arts degree in Micronesian Studies provides students with an understanding of the Micronesian region-past and present-and prepares them in research methods that will stimulate new research and analysis of the region.

The Master of Arts degree in Micronesian Studies is an interdisciplinary program which involves cooperative effort on the part of the faculty of the Division of Humanistic Studies and the Division of Social and Behavioral Sciences of the College of Liberal Arts and Social Sciences; faculty of the Richard F. Taitano Micronesian Area Research Center, Learning Resources, and the Micronesian Language Institute of the Sponsored Programs and Research; and faculty of the School of Education. It is administered by the College of Liberal Arts and Social Sciences.

### **FACULTY**

**BALLENDORF, Dirk A.**, Professor, Planning and Administration and Micronesian Studies

**GOETZFRIDT, Nicholas J.**, Professor, Library Science and Micronesian Studies

**HATTORI, Anne Perez**, Associate Professor, History and Micronesian Studies

**MANNER, Harley I.**, Professor, Geography and Micronesian Studies

**RUBINSTEIN, Donald H.**, Professor, Anthropology/Public Health and Micronesian Studies

**SELLMANN, James D.**, Associate Dean/Administrative Chair for the College of Liberal Arts and Social Sciences, Professor, Philosophy and Micronesian Studies

**SHUSTER, Donald R.**, Professor, Educational Foundation and Micronesian Studies

**SMITH, Kyle D.**, Professor, Psychology and Micronesian Studies

**SPENCER, Mary L.**, Dean, College of Liberal Arts and Social Sciences, Professor, Psychology and Micronesian Studies

**STATHAM, Jr., Edward R.**, Professor, Political Science and Micronesian Studies

**STEPHENSON, Rebecca Ann**, Professor, Anthropology and Micronesian Studies

**TWADDLE, Iain K.B.**, Associate Professor, Psychology and Micronesian Studies

### **ADMISSION REQUIREMENTS**

Degree students must meet the minimum admission requirements expected of all students, as outlined in the Academic Regulations of this Bulletin.

Degree students must also have a basic knowledge of Micronesia gained either by undergraduate coursework or through relevant experience.

### **DEGREE REQUIREMENTS**

The M.A. in Micronesian Studies Program is divided into six parts:

1. Proseminar courses (MI501, MI502, MI503): 9 credits
2. Elective courses: 15 credits.
3. One course in research methodology appropriate to the student's area of research: 3 credits.
4. Comprehensive written and oral examinations.
5. Micronesian or colonial language proficiency examination.
6. Thesis: 6 credits.

**LANGUAGE REQUIREMENTS**

The language requirement for the M.A. in Micronesian studies is a demonstrated competency in speaking at least one Micronesian language. There are two possible modifications of this rule.

First, students who are native speakers of a Micronesian language, but whose language competency and research interest do not coincide, may be required to demonstrate appropriate competency in the language of the locale of their research interest.

Second, students who intend to conduct research on an exogenous aspect of the colonial experience may substitute a demonstrated research skill in Spanish, German, or Japanese as appropriate.

The student in consultation with the student’s advisor and the Program Director will make decisions concerning the choice of an appropriate language.

**COURSE REQUIREMENTS - (33 CREDIT HOURS MINIMUM)**

**Required Proseminar Courses ----- 9**

- MI501 Peoples and Cultures of Micronesia (3)
- MI502 History of Micronesia (3)
- MI503 Contemporary Issues and Problems (3)

**Required Research Methodology Course ----- 3**

(One course appropriate to student's area of research)

- BI412G Biometrics (4)
- PY413G Research Methodology in the Behavioral Sciences (3)
- MI513 Research Methodology in Social Sciences (3)

**Electives ----- 15**

*(At least 15 hours selected with the approval of advisor.)*

- AN/SO405G\*\* Community Development (3)
- PY413G Research Methodology in the Behavioral Sciences (3)
- PY455G Psychology of Women (3)
- PY475G Micronesia and Mental Health (3)
- BA540 International Business (3)
- HI444G Modern Pacific History from 1850 to Present (3)
- HI450G Topics in Pacific History (3)
- MI/EV506 Physical Geography of Micronesia (3)
- MI/PI508 Micronesian Philosophy (3)
- MI510 Political Development in the American Pacific (3)
- MI512 Guam/Chamorro Studies (3)
- MI514 Health and Human Adaptation in Micronesia (3)
- MI/EV517 Cultural Ecology (3)
- MI518 Religion, Magic, and Myth in Micronesia (3)
- MI520 Economic Development and Change in Micronesia (3)
- MI599a,b,c,d\*\*\* Readings in Micronesian Studies (3)
- MI691a,b,c,d\*\*\* Seminar in Micronesian Studies (3)

- \* = A student shall not take more than 9 credit hours of “G” courses.
- \*\* = Either AN405G or SO405G may be taken, but not both.
- \*\*\* = These courses may be taken more than once for credit provided that the topics are substantially different.

**Thesis ----- 6**

- MI695 Thesis (6)

**TOTAL ----- 33 CREDIT HOURS**

## **PROFESSIONAL MASTER OF BUSINESS ADMINISTRATION**

**Program Chair: Dr. Filomena M. Cantoria**

**Telephone: 735-2520; e-mail: [fcantori@uog9.uog.edu](mailto:fcantori@uog9.uog.edu)**

### **PROGRAM PROSPECTUS**

The University of Guam Professional Master of Business Administration (PMBA) Program is a one-year graduate degree program for mid-level and executive managers who possess an undergraduate (business, or non-business with core business area prerequisites) degree from an accredited university or college. It is designed for qualified professionals seeking advance level business and management competencies to compete effectively in the dynamic and changing, international business arena. It will be fast-paced focused experience that enables professionals to satisfy their respective personal and professional goals in a formal relevant program.

The PMBA Program incorporates diversity of course offerings and experiences to integrate better content and process of management. Admission to the PMBA Program is competitive with enrollment limited to fifteen students per class. The academic calendar will be twelve-month format, with one two-week break in the Winter and a one-week break in the Spring.

### **FACULTY**

**BORJA-ENRIQUEZ, Anita**, Associate Professor, Management/ Marketing

**CANTORIA, Filomena M.**, Professor, Accounting, C.P.A.

**COLFAX, Richard S.**, Associate Professor, Human Resources Management

**JONES, Roseann M.**, Associate Professor, Economics and Policy Planning

**KIM, Duck Shin**, Associate Professor, International Business

**LAW, Wai K.**, Professor, Management/Information Systems

**NEDEDOG, J. Gregory**, Assistant Professor, Management/Finance

**SALAS, John C.**, Associate Professor, Tourism and Hospitality Management

**SANTOS, Annette T.**, Assistant Professor, Management

**TAYLOR, James J.**, Associate Professor, Finance

### **PROGRAM ADMISSION**

Applicants must have the following minimum qualifications, to be eligible to apply to the program:

- Minimum two years of full-time management, or professional-level, work experience;
- Earned baccalaureate degree from an accredited college or university.

The Professional MBA Admissions Committee of at least three full-time graduate faculty will base its selection decisions on completed applications, which include:

- Written essay of a business program for case development
- Work history and leadership potential
- Letters of recommendation from two or more professional supervisors or associates
- Results of the Graduate Management Admissions Test (GMAT), a minimum score of 500 preferred.
- Minimum undergraduate grade point average of 3.0 for business major or overall cumulative
- Official transcripts of all undergraduate work
- Met Graduate Admissions Standards, according to the UOG Graduate Bulletin

The Admissions Committee will select the best-qualified candidates who demonstrate a strong intellectual capacity for business and maturity of management experience. The Admissions Committee gives

significant attention to the length of time spent in a management role, progression in job responsibilities, and total work experience including the creation of new business ventures.

**\*Note:** The University of Guam requires that all applicants to the graduate studies must take the Graduate English Proficiency Exam (GEPE), which is administered at the UOG campus. If however, your GMAT score is 400 or more, the GEPE is waived.

## DEGREE REQUIREMENTS

The University of Guam PMBA degree program delivers an academic perspective with integrated practical experiences and management technologies. In addition to satisfying the core business area requirements, students must complete 33 credit hours of PMBA foundation and elective courses for the completion of their degree. Degree students must meet all the University requirements of the Graduate Bulletin. Procedure for students who drop out of the cohort: If a student drops out of his or her cohort for good reason during the course of his or her study in the (admitted) program year, he or she will be allowed to join the program by joining a subsequent cohort. Guidelines within the UOG Graduate Bulletin apply.

Overall requirements and courses are aligned with AACSB and IACBE accreditation guidelines. All inquiries should be directed to Dr. Anita Borja Enriquez at [abe@guam.uog.edu](mailto:abe@guam.uog.edu)

## CORE BUSINESS AREA REQUIREMENTS

A minimum of 18 semester hours\* must be satisfied in the following areas (or their equivalent), as part of program admission requirements:

- Financial reporting, analysis and markets (BA200 Principles of Financial Accounting, BA310 Applied Statistics for business Decisions, and BA320 Basic Business Finance);
- Domestic and global economic environments of organizations (BA110 Principles of Economics);
- Creation and distribution of goods and service (BA260 Fundamentals of Marketing); and
- Human behavior in organizations (BA340 Human Resources Management or BA440 Organizational Behavior) *\*Part of all of these requirements may be completed in related courses at the undergraduate level, or through the passage of competency examinations (CLEP, etc.), approved by the PMBA Admissions Committee, in respective subject matter areas.*
- Students must also demonstrate basic skills in written and oral communication, quantitative analysis, and computer usage, either by prior experience and/or education. This will be determined through a competency examination by the PMBA program unit.

## PMBA COURSES

<b>Foundation Courses</b> .....	<b>27</b>
BA610 Managerial Economics (3)	
BA611 Strategic Marketing Management (3)	
BA613 Strategic Leadership and Ethics (3)	
BA620 Financial Management (3)	
BA621 Managerial Accounting (3)	
BA630 Human Resources Management (3)	
BA632 Operations Management (3)	
BA662 Statistical Analysis and Econometric Techniques (3)	
BA711 Business Capstone Experience (3)	
<b>Elective Courses</b> .....	<b>6</b>
BA601 Case Studies in Management (3)	
BA710 Advanced Topics in International Business (3)	
PA501 Introduction to Research (3)	
BA/PA545 Organizational Behavior and Theory (3)	
PA560 Moral and Social Responsibility of Organizations (3)	



PA690 Special Project (3)

**\*Highly recommended.** Courses are not taught for their disciplinary perspective alone. Rather, the networking of ideas with strategic tools is reinforced throughout this process.

### **SCHEDULE FORMAT**

Five regular eight-week terms during one program year (early June to late May of the following year) are offered which reinforce the intellectual foundation of strategic business management with an integrated applied approach. Terms 1 is offered in Summer, Term 2 and 3 in Fall, and Terms 4 and 5 in Spring. Concept courses are introduced as a way of enhancing understanding of the ideas needed to manage from evidence in business management as best-practice models. The tools needed to implement the management perspective are provided so that students make the connection between concepts and process for effective management. A one-day orientation will be scheduled prior to Term 1 to provide an introduction to the new cohort of students into the program.

Thirty-three (33) credit hours are required for graduation. Six credit hours are awarded for successful completion of each Term. Three credits hours are given for the case study sessions conducted over Inter-terms 1,2,3, and 4. Course enrollment is limited to those admitted to the PMBA Program.

### **AY2005 – 2006 COURSE SCHEDULE**

**Orientation:** One week prior to start of classes.

<b>Term 1</b>	<b>(June 3 – July 24, 2005)</b>
BA622	Statistical Analysis and Econometric Techniques (3)
BA630	Human Resource Management (3)
<b>Inter-term 1</b>	<b>(July 29 – August 6, 2005) *July 29 – March 18, 2006</b>
BA601	Case Studies in Management (Part 1) (3)
	*Meets during inter-terms 1, 2, 3 and 4
<b>Term 2</b>	<b>(August 8 – October 2, 2005)</b>
BA611	Strategic Marketing Management (3)
BA613	Strategic Leadership and Ethics (3)
<b>Inter-term 2</b>	<b>(October 7 – October 15, 2005)</b>
BA601	Case Studies in Management (3)
<b>Term 3</b>	<b>(October 17 – December 11, 2005)</b>
BA620	Financial Management (3)
BA621	Managerial Accounting (3)
<b>Inter-term 3</b>	<b>(December 16 – December 24, 2005)</b>
BA601	Case Studies in Management (3)
	<b>Winter Break: December 25, 2005 – January 7, 2006</b>
<b>Term 4</b>	<b>(January 8 – March 4, 2006)</b>
BA610	Managerial Economics (3)
BA632	Operations Management (3)
<b>Inter-term 4</b>	<b>(March 5 – March 18, 2006)</b>
BA601	Case Studies in Management (Part IV) (3)
<b>Term 5</b>	<b>(March 19 – May 20, 2006)</b>
BA710	Advanced Topics in International Business (3)
BA711	Business Capstone Experience (3)

**\*Easter Recess: April 9 – April 25, 2006**

**MAY COMMENCEMENT: MAY 28, 2006**

**MASTER OF EDUCATION**  
**Program Chair: Dr. Lawrence Kodyanplakkal**  
**School of Education Bldg., Room 208L**  
**Telephone: 735-2410; e-mail: trichur@uog9.uog.edu**

## OBJECTIVES

The College of Professional Studies, School of Education offers a Master of Education program with five (5) areas of specialization, all of which are designed to prepare students for advanced roles in the field of Education:

- A. Administration and Supervision (36 credits)
- B. Language and Literacy: (36 credits)
  - Option A: Thesis / Special Project
  - Option B: Non-Thesis
- C. Secondary Education (36 credits)
- D. Special Education (36 credits)
- E. Teaching English to Speakers of Other Languages (TESOL): (36 credits)
  - Option A: Thesis / Special Project
  - Option B: Non-Thesis

## FACULTY

*ARTERO, Margaret Torres*, Associate Professor, Counseling/Curriculum and Instruction  
*CAMACHO-DUNGCA, Bernadita,* Associate Professor, Curriculum and Instruction  
*FERRER, Lourdes M.*, Assistant Professor, Educational Management  
*INDALECIO, Agnes R.E.*, Assistant Professor, Reading, Language and Culture  
*INOUE, Yukiko*, Associate Professor, Educational Psychology and Research  
*KODIYANPLAKKAL, Lawrence J.*, Associate Professor, Educational Policy and Management  
*SABLAN, Velma*, Associate Professor, Educational Research and Program Evaluation  
*SACHUO, Sweeter*, Assistant Professor, Curriculum and Instruction  
*SANCHEZ, John*, Assistant Professor, Educational Psychology  
*STOICOVY, Catherine E.*, Associate Professor, Administration, Curriculum and Instruction,  
Emphasis: Language and Literacy

## PREREQUISITE AND CONTINUING REQUIREMENTS FOR SCHOOL OF EDUCATION:

1. Meet all University requirements stated in the Academic Regulations of this bulletin, including a score of 900 or better on the Graduate Record Exam and a minimum 3.0 undergraduate GPA.
2. Write a statement of accomplishments, interests, and goals relating to education.
3. Maintain minimum 3.0 GPA for all coursework in the M.Ed. or M.A. Programs.

**The M.Ed. is divided into five parts:**

1. Core Courses:

ED600 Issues and Philosophies in Culturally Diverse Schools

ED601 Introduction to Research Methods

(and one of the following upon advisor's approval at thesis or special project stages)

ED602 Qualitative Inquiry in Education

or

ED603 Quantitative Analysis

2. Elective Courses.

3. Specialization Courses.

4. Comprehensive Written Examination.

5. Thesis or Special Project (for students completing the thesis/special project, this includes overview, thesis or special project credits, and oral examination).

The total number of credits for the M.Ed. Program is 36 credit hours.

**GRADUATE DOUBLE MAJORS in Education**

Students wishing to complete a Double Major in two areas of Education may do so by completing the following requirements:

1. Core Courses: 6 or 9 credits.

2. Two Areas of Specialization Coursework.

*Note: Elective courses may be taken in second area of specialization.*

3. Comprehensive Written Exam covering both areas of specialization.

4. Thesis or Special Project option (6 credits) to include both areas.

Students electing to Double Major will receive one degree with both areas of study listed on the transcript.

**THESIS AND SPECIAL PROJECT DESCRIPTIONS:**

Definitions and descriptions of the scope and format for Special Project and Thesis requirements appear in the Degree Requirements of this Bulletin. A student in consultation with his or her advisor will decide upon which requirement will best meet student and program goals.

**ADMINISTRATION AND SUPERVISION**  
**Program Chair: Dr. John Sanchez**  
**SOE Bldg., Room 208D**  
**Telephone: 735-2409; e-mail: uoged192@yahoo.com**

**OBJECTIVES**

The College of Professional Studies, School of Education, offers a Masters Degree in Administration and Supervision.

**SPECIFIC PREREQUISITE:**

Students who wish to be admitted to this program must have an undergraduate degree in Professional Education, or its equivalent as approved by the School of Education.

**FACULTY**

*SANCHEZ, John*, Assistant Professor, Educational Psychology

**REQUIREMENTS:**

**Core Courses ----- 9 credits**

- ED600 Issues and Philosophies in Culturally Diverse Schools (3)
- ED601 Introduction to Research Methods (3)
- ED602 Qualitative Inquiry in Education (3)
- or
- ED603 Quantitative Analysis (3)

**Electives ----- 6 credits**

Graduate level course from any college is an option for electives.

**Areas of Specialization ----- 15 credits**

- ED610 School Leadership and Administration (3)
- ED611 School Personnel Management (3)
- ED612 School Law (3)
- ED613 School Financial Management (3)
- ED698 Internship (3)

**Thesis or Special Project ----- 6 credits**

- ED691 Overview Seminar (3)
- ED690 Special Project (3)
- or
- ED695 Thesis (3)

**TOTAL ----- 36 CREDIT HOURS**

## LANGUAGE AND LITERACY

**Program Advisor: Drs. Catherine E. Stoicovy/Agnes Indalecio**

**Telephone: 735-2430; e-mail: [cstoicov@uog9.uog.edu](mailto:cstoicov@uog9.uog.edu), SOE Bldg., Room 210F**

**Telephone: 735-2413; e-mail: [agnesi@uog9.uog.edu](mailto:agnesi@uog9.uog.edu), SOE Bldg., Room 210E**

### OBJECTIVES:

The College of Professional Studies, School of Education offers a Masters Degree in Language and Literacy. This program is designed to prepare professionals in the field of language and literacy who are interested in becoming highly effective teachers and specialists in reading and language arts. A thesis or special project is recommended for students who anticipate further study at the doctoral level. Language and Literacy faculty will conduct an admissions interview as an entry level assessment for new applicants.

This program is designed to prepare professionals for the following roles:

1. To develop students' literacy (reading and writing) in language arts and across the curriculum, with an emphasis on pre-school, elementary and secondary years.
2. To assess and instruct students with diverse literacy needs in regular classrooms, as well as specialized settings (developmental or basic classes, ESL classes, special education classes, adult literacy centers, etc.).
3. To participate as a member of a professional learning community, reflecting on practice and contributing to the improvement of instructional programs, advancement of knowledge and practice of colleagues.

Graduates find diverse professional positions, with the majority serving in schools as classroom teachers, reading/language arts resource teachers, special education teachers, and school consultants. Some become diagnosticians and reading specialists in clinical settings or private practice, and some go on to doctoral study.

In addition to course work that integrates theory and practice, clinical experience is provided at the University of Guam School of Education Tritons Literacy Center, where students diagnose and instruct individuals who have reading and writing problems.

### FACULTY

**INDALECIO, Agnes R.E.**, Assistant Professor, Language, Reading and Culture

**STOICOVY, Catherine E.**, Associate Professor, Administration, Curriculum and Instruction,  
Emphasis: Language and Literacy

**REQUIREMENTS:**

**Core Courses -----\*6 or 9 credits**

- ED600 Issues and Philosophies in Culturally Diverse Schools (3)
  - ED601 Introduction to Research Methods (3)
  - ED602 Qualitative Inquiry in Education (3)
  - or
  - ED603 Quantitative Analysis (3)
- \*(ED602 or ED603 required only for students who wish to complete a thesis or special project)

**Electives ----- 3 credits**

\*(For students who do not wish to complete a thesis or special project)

Recommended:

- ED642 Seminar in Literature for Children & Young Adults (3)
- or
- ED647 Special Topics in Literacy Education (1-3)

Electives are selected with approval of the advisor and may be from other UOG graduate programs.

**Area of Specialization ----- 24 credits**

- ED484G The Art and Craft of Teaching Writing (3)
- ED640 Language and Literacy Development (3)
- ED641 Middle/Secondary Reading and Writing in the Content Areas (3)
- ED643 Literacy Assessment (3)
- ED644 Literacy Instructional Lab (3)
- ED645 Advanced Methods in Elementary School Literacy (3)
- ED646 Organization and Supervision of Reading Programs (3)
- ED649 Capstone Seminar in Literacy (3)

**Technology and Literacy ----- 3 credits**

- ED638 Teaching with the Internet (3)

**Thesis or Special Project ----- 6 credits**

- ED690 Special Project (6)
- OR
- ED695 Thesis (6)

\*(ED690 or ED695 required only for those students who wish to complete a thesis or special project)

**Comprehensive Written Exam (Required for all Students)**

**TOTAL ----- 36 CREDIT HOURS**  
**(For Students who do not choose to complete a thesis/special project)**

**TOTAL ----- 42 CREDIT HOURS**  
**(For students who choose to complete a thesis or special project)**

**SECONDARY EDUCATION**  
**Program Advisor: Dr. Lawrence J. Kodiyanplakkal**  
**SOE Bldg., Room 208L**  
**Telephone: 735-2410; e-mail: [trichur@uog9.uog.edu](mailto:trichur@uog9.uog.edu)**

**OBJECTIVES:**

The College of Professional Studies, School of Education offers a Masters Degree in Secondary Education. This program is designed for teachers in the secondary schools on Guam or in a multicultural environment.

**FACULTY**

*KODIYANPLAKKAL, Lawrence J.*, Associate Professor, Educational Policy and Management  
*SACHUO, Sweeter*, Associate Professor, Curriculum and Instruction

**REQUIREMENTS:**

**Core Courses ----- 9 credits**

- ED600                      Issues and Philosophies in Culturally Diverse Schools (3)
- ED601                      Introduction to Research Methods (3)
- ED602                      Qualitative Inquiry in Education (3)
- or
- ED603                      Quantitative Analysis (3)

**Elective Courses in Education ----- 6 credits**

- ED612                      School Law (3)
- ED641                      Middle/Secondary Reading and Writing in Content Areas (3)
- ED670                      Effective Middle Schools (3)
- ED671                      Critical Issues in Secondary Schools (3)
- ED672                      Philosophy of Education (3)
- Graduate Level course from any college

**Specialization Courses ----- 15 credits**

Courses in this area would be those in a student's teaching content area and would be approved and selected in conjunction with the academic advisors in the appropriate content areas (SOE and CLASS or CNAS or SBPA). For example, in the content area of social studies, the student should select courses in the M.A. program in Micronesian Studies or graduate level courses in history, political science, anthropology, etc.

**Comprehensive Written and Oral Examination**

**Thesis or Special Project ----- 6 credits**

- ED691                      Overview Seminar (3)
- ED690                      Special Project (3)
- or
- ED695                      Thesis (3)

**TOTAL ----- 36 CREDIT HOURS**



**SPECIAL EDUCATION**  
**Program Advisors: Dr. Velma A. Sablan**  
**SOE Bldg., Room 208**  
**Telephone: 735-2440 e-mail: sablanva@uog9.uog.edu**

**OBJECTIVES**

The College of Professional Studies, School of Education offers a Masters Degree in Special Education specifically for those professional educators working in the field of Special Education.

**FACULTY**

*SABLAN, Velma*, Associate Professor, Educational Research and Program Evaluation

**SPECIFIC PREREQUISITES:**

Students wishing to be admitted to this program must have an earned Bachelors degree in Education with an emphasis in Special Education including at least one course in classroom or behavior management (or related field with consent of Special Education Program Faculty). Students not meeting these requirements may be required to register for undergraduate certification courses prior to entry into the graduate program.

**REQUIREMENTS:****Core Course ----- 9 credits**

ED600	Issues and Philosophies in Culturally Diverse Schools (3)
ED601	Introduction to Research Methods (3)
ED602	Qualitative Inquiry in Education (3)
or	
ED603	Quantitative Analysis (3)

**Electives ----- 6 credits**

(May include ED692 Practicum (3))  
 Graduate Level course from any college

**Area of Specialization ----- 15 credits**

ED650	Assessment of Individuals with Disabilities (3)
ED651	Curriculum Design and Service Delivery in Special Education (3)
ED652	Family and School Consultant (3)
ED653	Issues Technology and Statutory Regulations in Special Education (3)
ED654	Multicultural Special Education (3)

**Thesis or Special Project ----- 6 credits**

ED691	Overview Seminar (3)
ED690	Special Project (3)
or	
ED695	Thesis (3)

**TOTAL ----- 36 CREDIT HOURS**

**TESOL**  
**Teaching English to Speakers of Other Languages**  
**Program Advisor: Dr. Agnes Indalecio**  
**SOE Bldg., Room 210E**  
**Telephone: 735-2413; e-mail: agnesi@uog9.uog.edu**

**OBJECTIVES:**

The College of Professional Studies, School of Education offers a Masters Degree in TESOL. The objectives of this program of study are to maintain a balance between theory and practice, and to fulfill a threefold purpose:

1. to train practitioners to enter the classroom as professionals,
2. to provide a theoretical base which would enrich the formation of classroom teachers and enable those who wish to further their studies at the doctoral level, and
3. to serve as a resource for other teachers to function as trainers.

**FACULTY**

*QUAN, Clarisa*, Associate Professor, Applied English

*ROBERTSON, Daniel L.*, Professor, Education (Evaluation of International Education Programs Concentration)

**SPECIFIC PREREQUISITES:**

In order to be admitted to this program, prospective student must have the prerequisites as currently stated in the catalog plus:

1. Native speaker of English or a score of 550 on the TOEFL.
2. A Bachelor's Degree with a major in English, Education, a foreign language or a related field.
3. Coursework:  
LN300 Introduction to Linguistics (or equivalent)  
LN385 Structure of the English Language (or equivalent)
4. A teaching certificate for those wishing to teach at the elementary or secondary levels.

**OPTION A: THESIS / SPECIAL PROJECT**

**REQUIREMENTS:**

**Core Course ----- 9 credits**

- ED600                      Issues and Philosophies in Culturally Diverse Schools (3)
- or
- ED669                      Culture and Its Influence on Education (3)
- ED601                      Introduction to Research Methods (3)
- ED602                      Qualitative Inquiry in Education (3)
- or
- ED603                      Quantitative Analysis (3)

**Electives ----- 6 credits**

**3 credits from:**

- ED634                      Instructional Interactive Multimedia (3)
- ED636                      Utilizing Media Resources in Instruction (3)
- ED637                      Integrating Technology in the Curriculum (3)
- ED638                      Teaching with the Internet (3)

3 credits from TESOL courses or other UOG graduate programs with approval of the advisor. Students are encouraged to consider coursework in language and literacy as an area particularly relevant to second language instruction and development.

**Area of Specialization ----- 15 credits**

- ED481G                      Second Language Teaching Methodology (3)
- LN400G/ED660              Applied Linguistics (3)
- ED661                      Second Language Curriculum Theory and Development (3)
- LN/ED662                      Second Language Testing and Evaluation (3)
- ED692                      Practicum: TESOL (3)

**Thesis or Special Project ----- 6 credits**

- ED690                      Special Project: TESOL (6) credits
- or
- ED695                      Thesis: TESOL (6)

**Comprehensive Written Exam**

**TOTAL ----- 36 CREDIT HOURS**

**OPTION B: NON-THESIS**

**REQUIREMENTS:**

**Core Course ----- 6 credits**

- ED600                      Issues and Philosophies in Culturally Diverse Schools (3)
- or
- ED669                      Culture and Its Influence on Education (3)
- ED601                      Introduction to Research Methods (3)

**Electives ----- 12 credits**

3 credits from:

- ED634                      Instructional Interactive Multimedia (3)
- ED636                      Utilizing Media Resources in Instruction (3)
- ED637                      Integrating Technology in the Curriculum (3)
- ED638                      Teaching with the Internet (3)

9 credits from TESOL courses or other UOG graduate programs with approval of the advisor. Students are encouraged to consider coursework in language and literacy as an area particularly relevant to second language instruction and development.

**Area of Specialization ----- 18 credits**

- ED481G                      Second Language Teaching Methodology (3)
- LN400G/ED660              Applied Linguistics (3)
- ED661                      Second Language Curriculum Theory and Development (3)
- LN/ED662                      Second Language Testing and Evaluation (3)
- ED667                      Reading and Writing for the Second Language Student (3)
- ED692                      Practicum: TESOL (3)

**Comprehensive Written Exam**

**TOTAL ----- 36 CREDIT HOURS**

**MASTER OF PUBLIC ADMINISTRATION**  
**Program Chair: Dr. Ronald L. McNinch-Su**  
**Public Administration and Legal Studies**  
**School of Business and Public Administration**  
**Telephone: 735-2573; e-mail: rmcninch@uog9.uog.edu**

## OBJECTIVES

The College of Professional Studies, School of Business and Public Administration offers a Masters Degree in Public Administration. The Master of Public Administration (MPA) degree is an interdisciplinary program which requires cooperative efforts on the part of graduate faculty in the School of Business and Public Administration, the College of Liberal Arts and Social Sciences, the School of Education, and the Research units.

The basic goals of the MPA program are to provide students professional education in public administration and to prepare them for public service careers at the territorial, regional, federal, and international levels. The program also offers opportunities for government employees to enhance and improve skills, and to learn new concepts and theories of public administration and management.

## FACULTY

*COLFAX, Richard S.*, Associate Professor, Human Organizational Systems  
*JONES, Roseann M.*, Assistant Professor, Economics and Policy  
*LAW, Wai K.*, Associate Professor, Business Administration, Management, Policy and Strategy  
*LI, Ning*, Assistant Professor, Public Administration  
*McNINCH-SU, Ronald L.*, Assistant Professor, Political Science

## ADMISSION REQUIREMENTS

In order to apply for admission to the Master of Public Administration (MPA) Program, applicants must forward the following materials to the Registrar:

1. Transcripts of all undergraduate work;
2. Two letters of recommendation; and
3. Official Graduate Management Admission Test (GMAT) OR Graduate Record Examination (GRE) scores.

A prospective candidate for the MPA program may hold a bachelor's degree in any field. It is not necessary that the bachelor's degree be in public administration. To be admitted to the MPA program, a candidate must meet the following additional requirements:

1. Acceptance to the University of Guam as a Graduate Student;
2. A total combined GMAT/GRE score of at least 400/900;
3. An overall grade point average (GPA) of at least 3.0 (on a 4-point scale) in the last two years (62 hrs.) of college work.

## NON-DEGREE STATUS

Students on non-degree status may take any graduate level public administration course; however, no more than twelve credits may apply towards the degree program. Students with a non-degree status may not enroll for PA690, Special Project or PA695, Thesis.

## CANDIDACY STATUS

Admission to the MPA program does not imply candidacy for the degree. The student who has completed the core requirements of 18 graduate credits with a minimum grade point average of 3.00 must successfully pass a qualifying examination in order to be admitted to candidacy.

## QUALIFYING EXAMINATION

The qualifying examination will be administered in the months of April, July and November of each year. Students seeking candidacy status must request from the Program Chair by the first of April, July or November, an application to take the qualifying examination. Instructors teaching core courses will be responsible for preparing the qualifying examinations and evaluating them. Students who fail the qualifying examination three times will be denied program candidacy.

## DEGREE REQUIREMENTS

The Master of Public Administration program has 3 sequential stages: 1) the Core Courses, 2) Elective Courses, and 3) Practicum or Special Project or Thesis. All students are recommended to complete the core requirements before taking the qualifying examination or courses in the elective category. All pre-service students must take PA598 as an elective.

### Core Courses ----- 24 credits

PA501	Introduction to Research (3)
or	
ED601	Introduction to Research Methods (3)
PA510	Administrative Thought (3)
PA525	Public Budgeting (3)
PA530	Public Management (3)
PA535	Intergovernmental Relations (3)
PA540	Administrative Law (3)
PA/BA560	Moral and Social Responsibility of Organizations (3)
PA570 (a-e)	Special Topics in Public Personnel Administration (3) (a) Policy; (b) Sanctions; (c) Employment Law; (d) Organizations; (e) Systems

### Elective Courses ----- 6-9 credits

PA526	Private Enterprise and Public Policy (3)
PA545	Organizational Behavior and Theory (3)
PA550	Comparative Public Administration (3)
PA561	Public Planning (3)
PA565	Public Contracting Policies and Practices (3)
PA598/698	Internship (3)
BA505	Financial Management (3)
BA506	Managerial Accounting (3)
BA510	Managerial Economics (3)
BA540	International Business (3)
BA565	Management Information Systems (3)
MI501	Peoples and Cultures of Micronesia (3)
MI503	Contemporary Issues and Problems (3)
MI510	Political Development in the American Pacific (3)
MI520	Economic Development and Change in Micronesia (3)

### Special Project or Thesis ----- 3-6 credits

PA692	Practicum (3) <b>or</b>
PA690	Special Project (3) <b>or</b>
PA695	Thesis (6)

**TOTAL ----- 36 CREDIT HOURS**

**MASTER OF SCIENCE IN BIOLOGY**  
**Program Chair: Dr. Robert G. Rowan**  
**Marine Laboratory, Room 110**  
**Telephone: 735-2185; e-mail: rrowan@uog9.uog.edu**

## OBJECTIVES

The College of Natural and Applied Sciences offers a Masters of Science Degree in Biology. Courses for the Master of Science Degree in Biology are taught by faculty from the College of Natural and Applied Sciences, the Marine Laboratory, and the Water and Environmental Research Institute. The program is designed to serve those students who are pursuing a research-oriented career at the master's level, those using the master's degree as a stepping stone to the doctorate, and biology teachers who have fulfilled requirements for teacher's certification but seek a broader knowledge of biology.

In addition to obtaining the Master of Science in Biology, candidates have the opportunity to study in one of the most interesting regions of the biosphere. The Graduate Program in Biology has many facets comparable to mainland programs and provides outstanding opportunities in tropical marine science. The Marine Laboratory, situated at the edge of Pago Bay's diverse coral reef, provides facilities for research and instruction requiring a running seawater system and basic and advanced instrumentation. (See the section on the Marine Laboratory in this Bulletin).

Prerequisites for the program are one (1) term (semester or quarter) of Calculus, two (2) terms of Physics or Geology, four (4) terms of Chemistry, and four (4) terms of Biology, of which at least two (2) are upper division. Students may make up these prerequisites while in the program, however courses taken to make up any deficiencies shall not be applied to the total credits required for a graduate degree. Applicants must also submit test scores on the Graduate Record Examination (General and Advanced Biology Tests taken within the last five years) and three letters of reference.

## FACULTY

*DENTON, Gary R.W.*, Professor, Environmental Toxicology  
*GHOSH, Subir*, Assistant Professor, Biology  
*LOBBAN, Christopher S.*, Professor, Biology  
*MARLER, Thomas E.*, Associate Professor, Pomology  
*MATSON, Ernest A.*, Professor, Biology  
*MILLER, Ross H.*, Associate Professor, Entomology  
*ROWAN, Robert G.*, Associate Professor, Marine Biology  
*TUPPER, Mark H.*, Assistant Professor, Marine Biology



**DEGREE REQUIREMENTS**

The degree program requires a total of 30 hours of graduate credit; at least 18 of which must be at the 500 or 600 level, including six hours of Thesis Research (BI695). A maximum of six credit hours may be accepted in related graduate level courses. Students must maintain a B average (3.0) and make no more than one grade of C or lower in the major area to be admitted to the degree program and remain in it, except that a student whose cumulative grade point average falls below 3.0 has one semester of probation to raise the average before he/she is dismissed from the program.

All students will be required to pass an oral comprehensive examination as part of their degree requirements. Two failures on this examination will result in the student being dismissed from the program. At the discretion of the faculty, additional courses at the undergraduate or graduate level may be required for a student found to have inadequate preparation. For further information, applicants should directly contact the Program Chair, Graduate Program in Biology, University of Guam.

**COURSE REQUIREMENTS**

**Required Courses - - - - - 20**

- BI412G      Biometrics (4)
- BI503      Biological Literature and Scientific Writing (2)
- BI505      Advances in Ecology (3)
- BI520      Current Topics in Cellular Biology (3)
- BI691      Seminar (1) at least twice (2)
- BI695      Thesis (6)

**Electives (at least 10 hours): - - - - -10**

Selected with the approval of advisor.

**TOTAL - - - - - 30 CREDIT HOURS**

## MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

Program Chair: Dr. Ross Miller

College of Natural and Applied Science

Telephone: 735-2141; e-mail: [rmiller@uog9.uog.edu](mailto:rmiller@uog9.uog.edu)

### OBJECTIVES

The College of Natural and Applied Sciences offers a Master of Science in Environmental Science. Courses for the Master of Science degree in Environmental Science are offered by faculty from the College of Natural and Applied Sciences, the Marine Laboratory and the Water and Environmental Research Institute. The program is interdisciplinary in scope and is designed to train students through an integrated teaching-research regime to understand and address technical aspects of environmental problems, and to make informed contributions to their solutions. The program prepares students for professional employment, teaching, or advanced studies in diverse areas of environmental science or related disciplines. Additional programmatic goals include promoting educational and service projects within island communities of the Western Pacific, and attracting to the University of Guam a broadly-based group of scholars committed to seeking answers to the many environmental questions arising in developing island nations of the tropical Pacific Basin.

Three broad areas of concentration are currently available at the University for focusing the student's environmental training:

**Biology-Ecology**  
**Geosciences-Engineering**  
**Management**

The student however, is not restricted to these areas and may, with permission from the Program Chair of Environmental Science, the Dean of the College of Natural and Applied Sciences and through the guidance of appropriate faculty, design an environmental program that is not specifically included in the above areas.

### FACULTY

**ABAWI, Farouq A.**, Associate Professor, Animal Science  
**BROWN, John W.**, Associate Director, Agriculture Experiment Station and  
Professor, Agricultural Economics  
**DENTON, Gary R. W.**, Professor, Environmental Toxicology  
**GOLABI, Mohammed H.**, Assistant Professor, Soil Sciences  
**HEITZ, Leroy F.**, Director, Water and Environmental Research Institute and  
Professor, Engineering  
**JENSON, John W.**, Associate Professor, Hydrogeology  
**KHOSROWPANA, Shahram**, Professor, Engineering  
**LANDER, Mark A.**, Assistant Professor, Meteorology  
**LOBBAN, Christopher S.**, Professor, Biology  
**McCONNELL, James**, Professor, Ornamental Horticulture  
**MANNER, Harley I.**, Professor, Geography  
**MARLER, Thomas E.**, Professor, Pomology  
**MARUTANI, Mari**, Professor, Horticulture (Veg.)  
**MATSON, Ernest A.**, Professor, Biology  
**MILLER, Ross H.**, Associate Professor, Entomology  
**RAULERSON, Lynn C.**, Professor, Biology  
**SINGH, Prem**, Assistant Professor, Agricultural Engineering  
**SULEMAN, N.K.**, Associate Professor, Chemistry  
**WIECKO, Greg**, Professor, Turf Grass Management

## ADMISSION REQUIREMENTS

Promptly upon admission into Graduate Studies, students interested in environmental science should meet with the Chair of the Environmental Science Program to discuss the program in greater depth. During this initial meeting the student's academic background and professional interests will be reviewed and the most appropriate faculty advisors identified. Any deficiencies in the student's previous academic training will be highlighted and a tentative course of remedial action proposed.

Students seeking formal admission to the Environmental Science Program must first satisfy all the Graduate Admissions Standards for pre-candidacy status as described earlier in the Graduate Bulletin, in addition to supplying three letters of recommendation. Students will also submit a written comprehensive overview of their scholastic achievements, academic interests, and professional goals together with their reasons for wishing to pursue a master's degree in environmental science. All pertinent documentation will be reviewed and evaluated by the Environmental Science Program Admissions Committee prior to any decision being made on a student's acceptance into the program. Applicants are required to be sufficiently grounded in computer applications to undertake and complete course assignments and their own research. They are also expected to demonstrate competency in math, physical sciences, biological sciences, and scientific writing.

Upon acceptance, the student will choose an advisor with expertise in their proposed primary area of concentration. Subsequently, the student's research and teaching program will be developed by the student and his/her advisor, and monitored by the advisor and the student's Advisory Committee chosen specifically for that purpose. Final program approval rests with the chair of the Environmental Science Program and ultimately, the Coordinator of Graduate Studies.

All students may apply for degree candidacy status and register for thesis credits only after their thesis proposal has been presented and approved by their Advisory Committee.

## DEGREE REQUIREMENTS

Students must complete a minimum of 36 hours of graduate credit, all but 10 hours of which must be at the 500 or 600 level, including 6 credit hours of Thesis Research (EV695). The latter requires a written and oral presentation of the proposed research topic, a written research thesis and an oral thesis defense.

To remain in the program, the student is expected to maintain at least a B (3.0) average and to receive no more than one grade of C or lower in all legitimate courses taken for credit. Students have the opportunity of retaking any course for which they have received a grade of C or lower. However, any student who fails to improve his/her grade to a B or better, after taking a course for the second time, and whose record shows two, unimproved Cs as a result, will automatically be dismissed from the program. For further information, applicants should contact the Environmental Science Program Chair.

## COURSE REQUIREMENTS

### Required Courses - - - - - 24 credits

BI412G	Biometrics (4)
BI503	Biological Literature and Scientific Writing (2)
EV510	Environmental Science: Biology/Ecology (3)
EV511	Environmental Science: Geology/Engineering (3)
EV512	Environmental Science: Management (3)
EV513	Environmental Impact Assessment (2)
EV691a,b*	Environmental Science Seminar (1)
EV695	Environmental Science Thesis (6)

**\* = Students are expected to have completed both Seminar courses by the end of their first year in the program.**

### Electives (at least 12 hours selected with the approval of Advisor) - - - 12 credits

**TOTAL ----- 36 CREDIT HOURS**

## COURSE DESCRIPTIONS

*(The University reserves the right to cancel scheduled courses due to low enrollment)*

### AGRICULTURE (AG) -----

AG/PA401G      COMMUNITY PLANNING (3)      Fall/Odd Years  
 This course is an introduction to community planning; relationships of physical form to environment, function, aesthetic principles, cultural values, planning as a synthesis of a frame of reference based on economics, political, social, cultural, physical, and administrative factors. *Prerequisite: SO101.*

### ANTHROPOLOGY (AN) -----

AN/SO405G      COMMUNITY DEVELOPMENT (3)      Spring/Odd Years  
 This course covers applied sociology and anthropology, emphasizing social processes and programs of planned change on the community level in parts of the world currently undergoing technical development. *Prerequisite: AN101 or Consent of instructor.*

### ART (AR) -----

AR504      GRADUATE CERAMICS (3)      Fall/Spring  
 Advanced ceramics course for graduate students. Individual studio work and critiques will be employed in the study of glazing, firing, and shaping techniques. *Prerequisite: Graduate standing in Art or consent of instructor.*

AR505      GRADUATE CERAMICS (3)      Fall/Spring  
 Continuation of AR504. *Prerequisite: AR504 or consent of instructor.*

AR508      GRADUATE SCULPTURE (3)      Fall/Spring  
 Advanced sculpture course for graduate students. Individual studio work and individual critiques will be employed. *Prerequisite: Graduate standing in Art or consent of instructor.*

AR509      GRADUATE SCULPTURE (3)      Fall/Spring  
 Continuation of AR508. *Prerequisite: AR508 or consent of instructor.*

AR550      GRADUATE PAINTING V (3)      Fall/Spring  
 Advanced painting course for graduate students. Individual studio work and individual critiques will be employed. *Prerequisite: Consent of instructor.*

AR551      GRADUATE PAINTING VI (3)      Fall/Spring  
 Continuation of AR550. *Prerequisite: AR550 or consent of instructor.*

AR552      GRADUATE PAINTING VII (3)      Fall/Spring  
 Continuation of AR551. *Prerequisite: AR551 or consent of instructor.*

AR554      PRINTMAKING I (3)      Fall/Spring  
 Advanced printmaking for graduate students. Individual studio work and critiques will be employed in exploration of silkscreen and woodcut methods. *Prerequisite: Graduate standing in Art or consent of instructor*

AR555      PRINTMAKING II (3)      Fall/Spring  
 Advanced printmaking for graduate students. Individual studio work and critiques will be employed in exploration of intaglio and lithography. *Prerequisite: Graduate standing in Art or consent of instructor.*

- AR590 PROBLEMS IN PROFESSIONAL PRACTICE (3-3) Fall/Spring  
 The study and execution of actual professional problems. This course is for graduates who request aid in dealing with actual problems in the various fields. Admission will require the presentation of the project for faculty consideration and acceptance. *Prerequisite: Consent of instructor.*
- AR690 ADVANCED PROBLEMS IN PROFESSIONAL PRACTICE (3-3) Fall/Spring  
 The advanced study and execution of actual professional problems. This course is for graduates who request aid in dealing with actual problems in the various fields. Admission will require the presentation of the project for faculty consideration and acceptance. *Prerequisite: Consent of instructor.*
- AR695 THESIS (6) Fall/Spring  
 This course will be offered to graduates with a satisfactory academic record and with a total of 18 credit hours of professional Art courses (with an average of B or better). *Prerequisites: AR321a-b or consent of instructor.*
- AR696 CREATIVE THESIS (3) Fall/Spring  
 In this course the student will prepare an exhibition of his art work and a descriptive catalog which will include a statement of the artistic principles involved in the exhibition.

**BUSINESS ADMINISTRATION (BA) -----**

- BA601 CASE STUDIES IN MANAGEMENT (3) Summer, Term 1  
 The course is broken up into four sections, accommodating brief intervals between inter-term periods that define the one-year masters program. The intent of this course is to introduce the student to the case study method as a means of establishing schema for moving the decision making process from problem definition to quality control measures via strategic design.
- BA610 MANAGERIAL ECONOMICS (3) Summer, Term 1  
 The course begins with an overview of macroeconomic issues. Indicators of macroeconomic performance are identified and managers are given a preview of the tools and resources used to evaluate and forecast economic conditions. Applications of microeconomic theory to strategic management in these market conditions are presented. Basic concepts of supply, demand, market price, output, production, and resource allocation provide a framework for strategic analysis in emerging markets where firms have market/monopoly power. Other topics address sophisticated pricing policies, transfer pricing, models of competition and cooperation, managing under uncertainty, asymmetric information and externalities. The course provides a framework and analytical tools to enhance decision-making within the manager's organization.
- BA611 STRATEGIC MARKETING MANAGEMENT (3) Summer, Term 1  
 This advanced marketing management course focuses on strategic marketing analysis and planning at both the corporate and SBU levels. It will use the concepts and theories underlying marketing decision-making and the tools needed to analyze and understand complex marketing situations found in today's ever-changing marketplace. The course is designed to help managers develop and execute appropriate managerial strategies. An emphasis of this course will be on developing executive-level decision-making skills, which students are most likely to encounter during their current and future careers. Students will learn to apply analytical marketing perspectives, decision tools, and concepts to strategic management decisions to achieve organizational goals and objectives. The subject has been organized around the marketing planning process, strategic decision-making, market analysis, competitive analysis, and financial analysis, and the application of these to "real world" situations.
- BA613 STRATEGIC LEADERSHIP AND ETHICS (3) Summer, Term 1  
 This seminar provides managers with the tools to explore and evaluate leadership theories and their application from a strategic perspective, taking into consideration their limitations and delimitations as they are applied in real work settings. Emphasis will be placed on professional work experience.

- BA620 FINANCIAL MANAGEMENT (3) Fall, Term 2  
This course introduces financial management principles and investment decisions from a strategic, pragmatic perspective. Although theory is broached, emphasis is placed on practical application. Topical areas include financial statement analysis, working capital management, capital structure optimization, investment selection, and sources of funding.
- BA621 MANAGERIAL ACCOUNTING (3) Fall, Term 2  
The course begins with a review of accounting concepts, standards and practices of financial reporting that serve the needs of decision makers including preparation and analysis of financial statements. The course then extends these concepts to business managers' decision making and evaluation of performance including the use of accounting information for planning and control. The application of accounting to decision models used by today's rapidly changing organizations are addressed along with mechanics of cost accounting and management accounting in resource allocation as in capital budgeting, and performance evaluation. Throughout the course, statistical approaches are applied to the analysis of information.
- BA622 STATISTICAL ANALYSIS AND ECONOMETRIC TECHNIQUES (3) Fall, Term 2  
The course begins with the basic concepts and methods of management science that relies on statistical analysis techniques as well as the art of decision-making under circumstances of constrained optimization. It introduces statistical ideas as they apply to managers. Two ideas dominate: describing data and modeling variability and randomness using probability models. The course provides tools and data analysis models for decision making that use hypothesis testing, linear programming and simulation. It also provides an understanding of the definitions and limitations of a variety of standard econometric measures.
- BA630 HUMAN RESOURCE MANAGEMENT (3) Spring, Term 3  
This graduate Human Resource Management (HRM) course explores regional and international HR principles, strategies and practices. Key areas such as U.S. and country-specific compensation and benefits, staffing, employee development, and performance appraisal are covered. Students will develop an in-depth understanding of HRM functions in regional and international arenas.
- BA631 MANAGERIAL COMMUNICATION (2) Spring, Term 3  
The course begins with an overview of the various ways in which managers share information from personal exchanges through formal correspondence to public media presentations. In addition to the ways in which managers communicate effectively, the technologies for communication are evaluated for their usefulness in managing information. The cultural aspects of language and communication are also important for business in various markets. International protocols and etiquette are addressed. The course is designed for managers to develop and to demonstrate written and oral presentation skills in a variety of business settings. Building media relationships and using media resources are also components of the course content and experience.
- BA632 OPERATIONS MANAGEMENT (3) Spring, Term 3  
This graduate Operations Management course explores modern theory and practice for planning and controlling the operations function, both in manufacturing and service organizations. Quantitative tools of analysis used to support decision making in the various activities of operations management are reviewed. Regional and international applications and issues will be included.
- BA710 ADVANCE TOPICS IN INTERNATIONAL BUSINESS (3) Summer, Term 1  
This course offers students the opportunity to explore the workings of the international business arena and to demonstrate an understanding of global markets as it relates to their professional field through undertakings that encourage business system adaptation to new environments. It further promotes the importance of ethical and socially responsible decision making in different cultural settings.
- BA711 BUSINESS CAPSTONE EXPERIENCE (3) Summer, Term 1  
The Business Capstone course is the culminating professional experience for the MBA student. It extends over the final two terms of their program. Within teams of two or three, MBA students will participate in the development of an applied research project that synthesizes the students' learning throughout their tenure in the MBA program. The nature of the applied project can consist of a strategic management project, an entrepreneurial project, or a special study project.

**BIOLOGY (BI)** -----

- BI412G      BIOMETRICS (3)      Fall  
This is a basic course in the design and analysis of biological experiments. Emphasis is given to analysis of biological and medical data. The lab, BI412L MUST be taken concurrently. *Prerequisites: College Algebra, BI157-157L and BI158-158L or equivalent. Corequisite: BI412L.*
- BI412G/L      BIOMETRICS LABORATORY (1)      Fall  
BI412L is the laboratory portion of BI412G and MUST be taken concurrently. The course consists of one three-hour laboratory period per week. *Corequisite BI412G.*
- BI/CH419G      BIOCHEMISTRY (3)      Spring/Odd Years  
This course covers the principles of protein chemistry and enzyme nomenclature, catalysis, kinetics and control. It includes three hours of lecture weekly. The lab, BI/CH419L, MUST be taken concurrently. *Prerequisites: CH310a, CH311, CH310b and CH312; or concurrent enrollment, BI157-157L and BI158-158L or equivalent. Corequisite: BI/CH419L.*
- BI/CH419G/L      BIOCHEMISTRY LABORATORY (1)      Spring/Odd Years  
BI/CH419L is the laboratory portion of BI/CH419G and MUST be taken concurrently. The course consists of one three-hour laboratory period per week. *Corequisite: BI/CH419G.*
- BI440G      ICHTHYOLOGY (3)      Spring/Even Years  
This course is a survey of the classification and morphology of fishes with emphasis on local forms. It includes three hours of lecture weekly. The lab, BI440L, MUST be taken concurrently. *Prerequisite: BI157-157L and BI158-158L or equivalent. Corequisite: BI440L.*
- BI440G/L      ICHTHYOLOGY LABORATORY (1)      Spring/Even Years  
BI440L is the laboratory portion of BI440G and MUST be taken concurrently. The course consists of one three-hour laboratory period per week. *Corequisite: BI440G.*
- BI474G      MARINE BOTANY (4)      Spring/Odd Years  
This course provides students an in-depth exploration of the marine plants in the region with an emphasis on how the physiology and ecology of seaweeds and microalgae relate to environmental conditions in the sea. *Prerequisite: BI302.*
- BI503      BIOLOGICAL LITERATURE AND SCIENTIFIC WRITING (2)      Spring  
Survey of biological literature as an assist in thesis and manuscript preparation in the areas of writing, proofreading, literature citation, figure and table preparation. Two hours of lecture weekly.
- BI505      ADVANCES IN ECOLOGY (3)      Spring/Even Years  
Current topics in community ecology, behavioral ecology, larval ecology, population ecology, evolutionary ecology, and physiological ecology. Emphasis will be placed on recent articles from scientific journals, as well as on controversies within the field. Students will be required to actively participate in discussions, critique scientific articles, and write a research paper. *Prerequisites: BI101a-b or equivalent, or consent of instructor.*
- BI/EV516      GEOLOGY AND GEOMORPHOLOGY OF CORAL REEFS (4)      Spring/Even Years  
Study of reef-facies development, with particular stress placed on the biological composition; physical structure; and geomorphologic and geologic evolution of coral/algal reefs in the Mariana Islands. Physio-chemical, biological, isostatic and tectonic processes contributing to reef destruction and to their transformation to limestone formations will be analyzed. Six hours of lecture/laboratory weekly; Several required field trips. *Prerequisite: NS201, BI101a-b or equivalent.*
- BI520      CURRENT TOPICS IN CELLULAR BIOLOGY (3)      Spring/Odd Years  
Important background information in biochemistry, cellular physiology, and molecular biology, with emphasis on recent scientific articles, new techniques and advances in the field. Application of new



techniques and advances toward biotechnology and medicine will be discussed. Students will be required to actively participate in discussions, critique scientific articles, make oral presentations, and write a research paper. *Prerequisite: BI101a-b or equivalent, or consent of instructor.*

- BI/EV522 CONSERVATION BIOLOGY (4) Spring/Odd Years  
This course studies concepts of conservation biology. Ecological principles relating to conservation biology are covered, including individual traits, population characteristics, community ecology, and ecosystem ecology. Practical issues and controversies relating to species conservation will be discussed. Effects of deforestation, exotic species, tourism, and other human impacts are covered. This course stresses problem solving and includes studies of case histories of environmental problems and their solutions. Students will prepare a case study of a local problem. Six hours of lecture-laboratory weekly. *Prerequisite: Consent of instructor.*
- BI525 EVOLUTIONARY BIOLOGY (3) Fall/Even Years  
This course provides a survey of the origin and evolution of life on Earth, exploring the history and major features of evolutionary change through time and the mechanisms responsible for those changes. The course will also consider evolutionary aspects of genetics, development, ecology, biogeography, systematics and paleontology. *Prerequisite: Genetics or consent of instructor.*
- BI/EV528 AQUATIC TOXICOLOGY (3) Spring/Odd Years  
Basic concepts of test methods used in aquatic toxicological studies. Emphasis on environmental toxicants. Methodologies and instrumental analysis associated with qualitative and quantitative assessment of toxicants and pertinent water quality parameters. Interpretive evaluation of results as related to the aquatic environment. Two hours of lectures a week and one three hour laboratory a week. *Prerequisites: BI101a-b, CH101 and CH102 or equivalent.*
- BI/EV529 ENVIRONMENTAL CONTAMINATION & TOXICOLOGY (3) Spring/Even Years  
Principles governing the interaction of pollutants with natural systems. Fundamental concepts of toxicology, toxicity testing, monitoring strategies and risk assessment. Classic and contemporary pollution problems with emphasis on key groups of contaminants. Three hours of lectures a week. *Prerequisites: BI101a-b, CH101 and CH102 or equivalent.*
- BI/EV530 CHEMICAL ECOLOGY (3) Fall/Odd Years  
This course focuses on the field of chemical ecology and examines some of the differences in approach and results between terrestrial and marine studies. Chemical ecology is an interdisciplinary subject concerned with the biochemistry of plant and animal interactions. The course focuses on reading and discussing current literature in terrestrial and marine chemical ecology with an emphasis on such topics as plant-herbivore interactions, host choice, allelopathy, chemical communication (pheromones, attractants) and other behavioral and ecological interactions mediated by secondary chemistry. *Prerequisites: At least one course each in upper level undergraduate chemistry, biology, and ecology, or consent of instructor.*
- BI531 BEHAVIORAL ECOLOGY (3) Fall/Odd Years  
Review and discussions of current topics in behavioral ecology. These include game theory, foraging strategies, mating systems, predator-prey interactions, animal communication, and the ecological determinants of social behavior. *Prerequisite: BI101a-b or equivalent, or consent of instructor.*
- BI546 MARINE INVERTEBRATES (4) Fall/Even Years  
Survey of the classification and morphology of marine invertebrates, with emphasis on local forms. Six hours of lecture-laboratory weekly.
- BI547 FISHERIES BIOLOGY (4) Fall/Odd Years  
Fisheries in relation to the distribution, abundance and productivity of fishes; exploitation and problems of development and conservation of aquatic resources. Simple analytic approaches to population management; biological and economic yields of natural populations; analyses of population data. Six hours of lecture-laboratory weekly.
- BI/EV550 BIOGEOCHEMISTRY (3) Spring/Odd Years

This course explores the elements important to life, their interaction and cycling within the biosphere. Mathematical models of biogeochemical fluxes along the land-ocean continuum and within terrestrial, freshwater and marine ecosystems are discussed. Emphasis is placed on the evolution of classical paradigms and modifications of them as they appear in the current literature. Three hours of lecture/field trips weekly. *Prerequisites: A background in upper level undergraduate chemistry, ecology, and mathematics is suggested. Consent of instructor required.*

BI/EV551	ASSESSMENT AND MANAGEMENT OF CORAL REEFS (6)	Summer/Odd Years
	This course provides both the scientific background and the applied methods necessary for dealing with the complex combinations of stresses and disturbances to coral reefs and coral-reef resources brought about by developing economies, technologies, populations and societies. It provides the scientific foundation and technical training necessary for personnel of government agencies dealing with resource management in Micronesia. <i>Prerequisites: Introduction to Biology and a course in Ecology or permission of instructor.</i>	
BI691	SEMINAR (1)	Fall/Spring
BI695	THESIS (6)	Fall/Spring

**CONSUMER AND FAMILY SCIENCES (CF) -----**

CF420G	FASHION MERCHANDISING (3)	Fall
	The course examines concepts and theories in the planning, buying and selling of apparel consumer goods. These include types of retail merchandising organizations, analysis of consumer demand, selection of merchandise for resale, resident buying offices, and development of a fashion image. Retailing principles and practices that relate to careers in fashion buying and merchandising are studied.	
CF429G	TEXTILES AND APPAREL IN THE INTERNATIONAL MARKET (3)	Fall
	An overview of the global textiles and apparel industries is provided, including theories, concepts, and problems relating to international trade. The U.S. textiles complex and the U.S. apparel market within an international context are considered.	
CF430G	NUTRITION THROUGHOUT THE LIFESPAN (3)	Fall
	The nutritional requirements and food needs of three different lifespan stages will be examined. The stages will include: (1) pregnancy and infancy, (2) early childhood and adolescence, and (3) adulthood and aging. Emphasis will be placed on the special demands the various life cycle stages impose on normal nutrition. <i>Prerequisite: CF230 or CF231; or Consent of Instructor</i>	
CF591	ISSUES IN CONSUMER AND FAMILY SCIENCES (3)	Spring
	This course assists students in synthesizing information regarding current issues in Consumer and Family Sciences. Each student researches, analyzes and presents an issue of interest in one of the following areas: clothing and textiles; food and nutrition; or family resources.	
CF599	DIRECTED READINGS IN CLOTHING AND TEXTILES (3)	Spring
	This course examines both the nonindustrial and industrial development of textiles and clothing over time. Changes in technology as a result of the invention and perfection of both manufacturing processes and equipment are emphasized.	

**CHEMISTRY (CH) -----**

CH/BI419G	BIOCHEMISTRY (3)	Spring/Odd Years
	This course covers the principles of protein chemistry and enzyme nomenclature, catalysis, kinetics and control. It includes three hours of lecture weekly. The lab, BI/CH419L, MUST be taken concurrently. <i>Prerequisites: CH310a, CH311, CH310b and CH312; or concurrent enrollment, BI157-157L and BI158-158L or equivalent. Corequisite: BI/CH419L.</i>	

CH/BI419G/L BIOCHEMISTRY LABORATORY (1) Spring/Odd Years  
 BI/CH419L is the laboratory portion of BI/CH419G and MUST be taken concurrently. The course consists of one three-hour laboratory period per week. *Corequisite: BI/CH419G.*

**EDUCATION (ED) -----**

ED443G INSTRUCTIONAL MATERIALS FOR USE WITH INDIVIDUALS WHO ARE DISABLED (3) Spring

This course is designed for special education and regular education teachers who expect to teach pupils with disabilities. Students learn to select, adapt, create, and use materials with the disabled. This course is designed to be taught concurrently with ED311, 315, and 343.

ED444G SOCIOCULTURAL ASPECTS OF EDUCATION (3) Spring

This course is a survey of sociological and psychological factors related to the education of children outside the cultural and economic mainstream of American society. Review of local resources and facilities to assist these pupils. *Prerequisite: SO101, PY101, or consent of instructor.*

ED446G INCLUDING CHILDREN WITH DISABILITIES IN THE REGULAR CLASSROOM (3) Fall/Spring

This course is designed for special and general education teachers (both elementary and secondary). It covers basic knowledge and skills necessary for teaching students with disabilities in order to be involved in and progress within the least restrictive environment. Emphasis is placed on the placement of students primarily within the general education setting unless it is determined that placement is this setting with supplementary aids and services has proven to be unsatisfactory. Special emphasis is also given to multicultural populations and settings. *Prerequisite: ED215 or consent of instructor.*

ED449G DIRECT INSTRUCTION TEACHING STRATEGY Fall

This competency-based course deals with the development of skills necessary for effectively teaching direct instructional programs dealing with basic skills of reading, spelling, language, or arithmetic. The specific conceptual content will vary depending on the specific level of program(s) taught. *Prerequisite: ED300 or consent of instructor.*

ED457G BEHAVIOR MODIFICATION IN THE CLASSROOM (3) Spring/Even Years

This course is designed to provide classroom teachers and other school staff with the knowledge and skills necessary to promote school-wide discipline procedures, prevent discipline problems, and correct inappropriate behaviors. Focus will include preventive measures related to effective instruction. In addition, strategies on dealing with disruptive, distracting, and dangerous behaviors will be provided in order to ensure a safe and effective learning environment. Information on conducting functional assessments, developing positive behavioral support plans, and disciplining students with behavioral support plans, and disciplining students with disabilities will also be covered in this course.

ED481G SECOND LANGUAGE TEACHING METHODOLOGY (3) Spring

This is an introduction to the large and growing field of second language pedagogy. The primary purpose of the course is to provide current and prospective second language teachers with knowledge of the theoretical bases and research which are related to second language learning. The secondary purpose is to consider the practical application of the theories and research within the second language classroom.

ED483G INTRODUCTION TO EARLY CHILDHOOD SPECIAL EDUCATION (3) Fall

This course provides an overview of the rationale, policies, and procedures for Early Childhood Special Education Services. The etiology of disabilities and a description of children with handicaps will be presented. Implications for educational intervention and service delivery for children from

birth to 5 years will be discussed. The course is designed to introduce students to the field of Early Childhood Special Education.

- ED484G THE ART AND CRAFT OF TEACHING WRITING (3) Spring  
This course draws on current perspectives in language and literacy acquisition to help teachers set up a process-centered reading and writing classroom. Emphasis will be on the Authoring Cycle as a conceptual framework for a reading/writing curriculum in the primary and intermediate grades. In addition, teachers will learn how to use the authoring cycle to construct meaning across the sign systems.
- ED488G SCHOOL LAW FOR TEACHERS (3) Fall  
This course is designed as an introductory class in legal basics for the prospective or recently assigned teacher in the public school system. The class will provide guidance in the everyday decision making that will help make the teacher actions more defensible in this modern era of litigation in the school scene.
- ED600 ISSUES & PHILOSOPHIES IN CULTURALLY DIVERSE SCHOOLS (3) Fall/Spring  
Advanced study concepts and procedures on Bilingual/Bicultural and Multicultural education and process in classroom instruction related to issues and philosophies which impact culturally diverse schools.
- ED601 INTRODUCTION TO RESEARCH METHODS (3) Fall/Spring  
This course introduces students to quantitative and qualitative methods common in educational research. Students examine and evaluate research methods and design research programs.
- ED602 QUALITATIVE INQUIRY IN EDUCATION (3) Fall/Spring  
A survey of qualitative research methods common in educational research. This course discusses the theoretical and methodological tenets underlying qualitative research and focuses on five specific qualitative methods: history, ethnography, case study, critical theory, and field study. *Prerequisites: ED601, Graduate status and strong writing skills.*
- ED603 QUANTITATIVE ANALYSIS (3) Fall/Spring  
This is a foundation course in conducting research that involves the collection, analysis and presentation of quantitative data. Classification of data, descriptive statistics, measurement of association, regression analysis and several parametric and nonparametric inferential statistics are included. Computer software will be relied upon to analyze and display data. Interpretation and critique of quantitative research is included. *Prerequisites: ED601, Graduate standing; computer experience.*
- ED610 SCHOOL LEADERSHIP AND ADMINISTRATION (3) Fall  
Introduction of the organization and direction of public and private schools to prospective administrators and supervisors.
- ED611 SCHOOL PERSONNEL MANAGEMENT (3) Spring  
Focuses on the responsibilities of administrators in improving the total educational program through effective administration of all personnel within an educational organization. Includes study of concerns relative to selection, assignment, development, and retention of personnel. *Prerequisite: Consent of advisor.*
- ED612 SCHOOL LAW (3) Fall  
This course is an overview of school law at the territorial (state) and national levels as it affects the organization, general policies and practices of public education. Emphasis is placed on constitutional rights and the related ramifications these pose for administrators. The context of the Guam scene is emphasized. *Prerequisite: Consent of advisor.*
- ED613 SCHOOL FINANCIAL MANAGEMENT (3) Spring

School business management, budgeting process, salary, scheduling, cost accounting, **and** purchasing procedures. Principles and practices of school financing, past, present, and future, on both national and local levels are considered. *Prerequisite: Consent of advisor.*

- ED614 CLINICAL SUPERVISION (3) Fall  
This course is designed for the practicing administrator and for master's degree candidates who will be certified as school site administrators. The focus is on the professional and personal development of an administrator through the use of contemporary clinical supervision techniques. The use of various observation instruments, the analysis of data and skills in conferencing are emphasized. Discussion will also center on the role of the evaluator in the legal aspects of teacher evaluation. Some attention is given to teacher participation on clinical educator teams which assist colleagues.
- ED619 INTRODUCTION TO COUNSELING (3) Fall/Spring  
Designed to provide a broad overview of the field of counseling. It will introduce students to the counseling process, basic counseling skills, the role of culture in counseling, and the nature and scope of counseling resources in the schools and in the community.
- ED620 THE COUNSELING PROCESS: THEORY (3) Fall  
Overview of approaches to counseling. Emphasis is given to understanding the theoretical assumptions of each approach. Theories will be examined in their cultural context. *Prerequisite: ED619 and consent of advisor.*
- ED621 COUNSELING PROCESS: INDIVIDUAL PRACTICE (3) Fall  
Study, discussion, and practice of useful counseling techniques. The creation and use of a facultative helping relationship is stressed. *Prerequisite: ED619, ED620, and consent of advisor.*
- ED622 GROUP COUNSELING (3) Spring  
Designed to develop useful counseling techniques in group settings through the study of basic concepts, discussion, observation, and practice of group counseling techniques. *Prerequisite: ED619, ED620, ED621, and consent of advisor.*
- ED623 DYNAMICS OF INDIVIDUAL BEHAVIOR (3) Spring  
Focuses upon understanding the dynamics of individual behavior, the formation of personality, and human development in general from a cross-cultural perspective. *Prerequisite: ED619 and consent of advisor.*
- ED624 INDIVIDUAL AND GROUP ASSESSMENT (3) Fall  
Study of psychological assessment and testing as they pertain to educational and community mental health center settings. *Prerequisite: ED619 and consent of advisor.*
- ED625 MULTICULTURAL COUNSELING (3) Spring  
This course is designed to develop multicultural competence in counseling. The emphasis will be upon issues related to being in a therapeutic relationship that is multicultural. *Prerequisite: ED619, ED620, ED621, and consent of advisor.*
- ED626 PREVENTION AND OUTREACH (3) Fall  
Application of theory and research to the contemporary and lifespan prevention of personal and psychological problems in educational, organizational, professional, and community settings. *Prerequisite: ED619, ED620, ED621, ED623.*
- ED627 CAREER COUNSELING (3) Spring/Even Years  
Study of sources and use of information about occupations, vocational development theories, assessment instruments used in career counseling, and approaches used for vocational counseling. *Prerequisite: ED619.*
- ED628 FAMILY COUNSELING (3) Spring/Odd Years

An overview of approaches in family counseling. The course focuses on upon understanding the dynamics of family interactions for effective counseling interventions. *Prerequisite: ED619, ED620, ED621, ED623, and consent of advisor.*

- ED629 PSYCHOLOGICAL TESTING (3) Spring/Even Years  
In class supervised training in a wide variety of effective methods of psychological evaluation and decision making for counselors in applied settings. *Prerequisite: ED619 and ED624.*
- ED630 INSTRUCTIONAL DESIGN SEMINAR (3) Fall  
Problems in systematically applying educational media technology to instruction and learning. Includes selecting appropriate modes of instruction based on clearly defined objectives, organization of instructional configurations, and media implementation.
- ED631 INSTRUCTIONAL APPLICATIONS OF HYPERMEDIA (3) Fall  
Course is designed to develop skills needed to author interactive instructional hypermedia software. It will apply basic instructional design principles in the production of hypermedia programs.
- ED632 COMPUTER APPLICATIONS, GRAPHICS AND DESKTOP PUBLICATION (3) Spring  
Application of communication theory and learning principles to design of graphic instructional materials to improve individual and group learning. Includes design, production, evaluation, and preparation of necessary utilization and study materials and guides.
- ED633 TELECOMMUNICATIONS AND DISTANCE LEARNING (3) Fall  
Studies of interactive distance learning models for education and training; logistics and economics for satellite, ITFS, microwave, fiber-optic, cable, twisted-pair, compressed video, radio, and telephone/modem. Teleconferencing. Legislation and FCC regulations. Support systems: courier, FAX, voice mail, computers.
- ED634 INSTRUCTIONAL INTERACTIVE MULTIMEDIA (3) Spring  
Application of instructional design, video production and computer theory to the production of Instructional Interactive Multimedia programs. Emphasis on production and examination of interactive video accompanied by hypermedia as a training and educational media. CD-ROM applications will be examined.
- ED635 PHOTOGRAPHIC VIDEO PRODUCTION (3) Fall/Spring  
Develop skills in designing and producing, educational, informational and/or motivational slide/tape and video programs.
- ED636 UTILIZING MEDIA RESOURCES IN INSTRUCTION (3) Fall  
A course focusing on the role of the advanced technologies of education such as telecommunications and interactive media in the instructional process. Emphasis is on the selection, utilization, and evaluation of these media resources for instruction. Applications for advanced technologies in the teaching learning process are stressed. *Prerequisite: ED451 and ED452 or other Computer course or consent of instructor.*
- ED637 INTEGRATING TECHNOLOGY IN THE CURRICULUM (3) Spring  
This course is designed to prepare students to effectively integrate microcomputers in the curriculum. Students will develop conceptual frameworks, strategies and skills to utilize computers to support and enhance the curriculum. *Prerequisite: ED452 equivalent.*
- ED638 TEACHING WITH THE INTERNET (3) Fall  
This course focuses on how to use the Internet for teaching and learning. It helps students develop skills and strategies in integrating the Internet as an essential resource into the curriculum. *Prerequisite: ED452 equivalent.*
- ED640 LANGUAGE AND LITERACY DEVELOPMENT (3) Fall  
This course explores the theory and practice of literacy development and instruction across the K-12 school years. Topics include models of reading and writing processes, emergent literacy, reading and writing instruction for diverse learners, assessment, and adult literacy. Students will be introduced to

the theoretical and research base for various models of literacy development, reading and writing processes, and instructional practices. The field has moved from viewing literacy as a process of skills acquisition to viewing literacy as a psycholinguistic process that is socially based and constructivist in nature. This course will help teachers apply current views of how children and adolescents develop as readers and writers to their own teaching situations.

- ED641 MIDDLE/SECONDARY READING AND WRITING IN CONTENT AREAS (3) Spring  
Educators will learn how to support the needs of adolescent and young adults, helping them develop into confident and independent readers and writers. Focus will be on the improvement of literacy skills through meaningful, constructive engagements in reading and writing.
- ED642 SEMINAR IN LITERATURE FOR CHILDREN AND YOUNG ADULTS (3) Spring  
Increasingly, teachers are using literature in the language arts classroom and across the curriculum. In this course, students read and critically evaluate a wide range of books for pre-schoolers to young adults, considering such issues as developmental needs, linguistic complexity, genre, aesthetics, interest and cultural diversity. Reader response theory, among others, provides a framework for exploring how readers respond to texts through talk, drawing, writing, dramatic play, etc.
- ED643 LITERACY ASSESSMENT (3) Fall  
Students will learn how to use a range of formal and informal assessment tools and methods to diagnose and assess individual learners' reading and writing development, to guide instruction, and to involve the learner in self-assessment. The emphasis is on using assessment in the service of instruction in the classroom and clinical settings. Supervised clinical practice is provided at the University of Guam Tritons Literacy Center (TLC). Prerequisite: Consent of Advisor
- ED644 LITERACY INSTRUCTIONAL LAB (3) Spring  
Building on students' experience in ED643, Literacy Assessment, this course focuses on reading and writing instruction for children and adolescents with diverse learning needs. As part of the course, students observe, diagnose, and instruct children at the University of Guam Tritons Literacy Center on a twice-weekly basis. Students will deepen their understanding of reading/writing processes and strengthen their skills in designing and implementing instruction that is responsive to the current knowledge, skills, interests, motivation and needs of individual learners. Students will also extend their knowledge of how to assess students, synthesize measurement data (both formal and informal) and present findings to parents and professionals in the form of a case report. To contribute to the knowledge and practice of paraprofessionals, students will also provide professional development and training for paraprofessionals at their respective schools. Prerequisite: ED643
- ED645 ADVANCED METHODS IN ELEMENTARY SCHOOL LITERACY (3) Fall  
This course draws on the constructive nature of literacy development to teach children in kindergarten through grade five. Emphasis will be placed on the ways in which children learn naturally. Teachers will explore the characteristics of natural learning and how they relate to literacy learning in the elementary grades. Literacy strategies will be responsive to the sociocultural contexts of learning in diverse classroom populations. The ultimate goal is to foster children's willing engagement in reading and writing.
- ED646 THE ORGANIZATION AND SUPERVISION OF READING PROGRAMS (3) Spring  
Introduces students to organization, administration, and supervision of school reading programs (K-12). Students examine roles of reading personnel, evaluate major reading programs and develop, implement, and evaluate a reading program at the classroom and school level. Prerequisite: ED640, ED641 or ED645, or consent of advisor.
- ED647 SPECIAL TOPICS IN LITERACY EDUCATION (1-3) Fall/Spring  
Topics will vary by semester. Previous topics include emergent literacy, integrated language arts instruction, computers, and language arts, poetry, storytelling in the Pacific, and beginning reading.

- ED649 CAPSTONE SEMINAR IN LANGUAGE AND LITERACY (3) Fall/Spring  
 This seminar is designed as a final, integrative experience for students completing the master's degree program in language and literacy. Candidates create an Electronic Capstone Portfolio to showcase their growth in mastery of competencies identified by program goals, objectives and standards, their synthesis of graduate course work and experience, and the professionalism expected of an educator. Prerequisites: A candidate's Capstone Experience occurs during his/her last fall or spring semester of course work.
- ED650 ASSESSMENT OF INDIVIDUALS WITH DISABILITIES (3) Spring  
 Course deals with various methods and approaches to psychological and educational assessment of special education students. Analysis and interpretations of tests and results will also be examined. A practicum component dealing with the administration, interpretation and uses of various tests will be heavily stressed. *Prerequisite: An undergraduate or graduate course in evaluation, skill assessment or tests and measurement is critical.*
- ED651 CURRICULUM DESIGN AND SERVICE DELIVERY IN SPECIAL EDUCATION (3) Fall  
 An advanced course designed to survey the development and delivery of individualized curriculum for students in need of special education services. Covering students from birth through 21 years of age, the issues of transition and program administration as related to curriculum will also be presented. *Prerequisite: Training in basic education courses including an introductory survey course and an introductory curriculum course.*
- ED652 FAMILY AND SCHOOL CONSULTATION (3) Fall  
 Consideration of problem-solving strategies techniques, and methods that special educators utilize in consultation with families and regular education personnel. The roles of model, advisor, counselor, instructor, and program consultant are examined in relation to the individual program needs of students with disabilities and their families. *Prerequisite: Courses in assessment, methods and materials, and curriculum development.*
- ED653 ISSUES, TECHNOLOGY, AND STATUTORY REGULATIONS IN SPECIAL EDUCATION (3) Spring  
 This course is designed to prepare students in knowledge of statutory regulations affecting and supporting individuals with disabilities, to provide students with an overview of issues confronting the Special Education field, and to review available technologies (assistive, adaptive, high and low tech) that may improve the lives of individuals with disabilities. *Prerequisite: Undergraduate training or experience with individuals who have disabilities is required. Knowledge of computer use.*
- ED654 MULTICULTURAL SPECIAL EDUCATION (3) Fall  
 Exploration of the unique needs and problems associated with providing special education services to students with disabilities in multicultural settings. Emphasis will be placed on students with limited English proficiency with a focus on appropriate assessment practices and program planning. Prerequisite: Basic tenets of special education, including assessment techniques and instructional planning. A course in cultural anthropology is recommended.
- ED660 APPLIED LINGUISTICS (3) Fall  
 This course explores the field of applied linguistics, providing a multidisciplinary approach to the solution of language-related problems. The course focuses on implications of second language acquisition research and theories on language pedagogical methods; language policy and language planning; linguistics and poetics; stylistics; the use of literature in language pedagogy; and computer-assisted language learning and language research. *Prerequisite: LN300.*
- ED661 SECOND LANGUAGE THEORY AND DEVELOPMENT (3) Fall  
 This course examines curriculum theory and provides the student with the criteria to design a curriculum for a second language and to evaluate the strategies and materials for teaching and language.
- ED/LN662 SECOND LANGUAGE TESTING AND EVALUATION (3) Spring



This is a course in which all the techniques of teaching a second language are united and related to their effectiveness according to parameters derived from language acquisition theory and statistical quantification. *Prerequisite: Native or native-like proficiency in English and familiarity with a second language. Also, familiarity with basic arithmetic and algebra.*

- ED/LN663 SEMINAR IN PSYCHOLINGUISTICS (3) Spring/Even Years  
This course provides fundamental knowledge of psycholinguistics and emphasizes its interdisciplinary nature. It encompasses the processes underlying the acquisition of a language and the factors that influence these processes. *Prerequisite: LN300.*
- ED664 SEMINAR IN BILINGUAL EDUCATION (3) Spring/Even Years  
This course deals with the various situations where bilingualism occurs. The course is divided into two aspects: a general, theoretical perspective and a contextual perspective of situations where two or more language coexist. In the first part, the focus and concepts that can be applied to the study of bilingualism in general will be traced. The second part will consider the manifestation of bilingualism in the individual and how he/she fits into society. Problems in situations where a great linguistic heterogeneity exists will be presented. Basic themes that confront education and language planning will also be considered, analyzing the contexts and proposing necessary measures for solutions. It will also attempt to raise the consciousness of the educator to his role within the bilingual community.
- ED665 SURVEY OF MICRONESIAN LANGUAGES (3) Fall/Odd Years  
This course is a historical and comparative study of the various languages of Micronesia which focuses on their development and on their similarities and differences to each other and to English. *Prerequisite: LN300.*
- ED667 READING AND WRITING FOR THE SECOND LANGUAGE LANGUAGE STUDENT (3) Fall  
This course examines first and second language reading and writing with respect to theory and methodology at various levels of proficiency. *Prerequisite: ED600.*
- ED668 TEACHING THE CONTENT AREAS TO SECOND LANGUAGE STUDENTS (3) Fall  
This course discusses various methods, strategies, and techniques for teaching content to second language students. Adapting existing text or materials and developing appropriate materials are also discussed. The course is designed for both elementary and secondary teachers in the regular classroom where there may be one or several second language students. It is also appropriate for teachers of sheltered classes or for ESL resource specialist who wish to know more this topic and how they might assist the regular classroom teacher. *Prerequisite: Prospective students should be currently working with second language students.*
- ED669 CULTURE AND ITS INFLUENCE ON EDUCATION (3) Fall/Odd Years  
This course looks at culture and cultural values and explores their influence on the educational system — organization, curriculum, and implementation. The course is comparative in nature, examining the U.S. system and comparing it to others. *Prerequisite: Graduate Status.*
- ED670 EFFECTIVE MIDDLE SCHOOLS (3) Fall  
Examination of the middle school concept and the rationale for designing educational programs for effective teaching of students at grades 6–8. The course will focus on the needs of middle school student, the effective application of the middle school concept and how teachers could effectively deal with issues related to the middle school.
- ED671 CRITICAL ISSUES IN SECONDARY SCHOOL (3) Spring  
This course examines contemporary issues of the American secondary school: school reform and effectiveness, desegregation, cultural pluralism, curriculum innovation, and social change. *Prerequisite: Graduate student and successful completion of at least two graduate level courses, and consent of advisor.*
- ED672 PHILOSOPHY OF EDUCATION (3) Fall  
This course will include examination of three basic areas of philosophy: (a) metaphysics or what is real; (b) epistemology, or what is true; and (c) axiology or what is good, and the relationship of these

issues to educational theory and practice. This material will provide a framework for exploration of questions, issues and models of education. *Prerequisite: Graduate student standing and consent of advisor.*

- ED673 INCLUSION OF LINGUISTICALLY DIVERSE STUDENTS (1) Spring  
This course deals with understanding the plight of the limited English proficient student in the mainstream classroom, and techniques and strategies for effectively teaching these students.
- ED674 LIFESPAN TRANSITION COUNSELING (3) Spring  
More than ever, we are in transition. Early retirement, layoff, and second career retraining swell the ranks of our colleges and universities. Stress develops from these and other transitions: death in the family, divorce, decade birthdays, relocations, economic dislocation, fear of growing old or of poor health. Counselors increasingly see clients with stress symptoms expressed in sleep disturbance, memory loss, disability, test anxiety, family discord, sexual dysfunction, loss of purpose or concentration or memory, or abusive attempts at self medication with alcohol or drugs. Transition counseling, goal directed, facilitates stress-reducing objectives: a new career, relationship, home, or skill. This course provides instruction in practical counseling applications of transition theory and technique in the specific areas of applied gerontology (age/generation era/passages), cognition (memory loss & retraining), imagery (hypnosis & time), health psychology (sleep dysfunction), and existential thanatology (coping with death). *Prerequisite: Graduate Status.*
- ED675 GROUP COUNSELING PRACTICUM (3) Spring  
Supervised laboratory experience in group counseling techniques. May be taken concurrently or following ED622 Group Counseling. An elective opportunity to add the depth of a laboratory component to the required theory and research course ED622 and to meet current professional standards for training in group counseling. Grading system: CR/NC. *Prerequisite: ED619, ED620, ED621, ED622 (may be taken concurrently), instructor consent, advanced graduate status.*
- ED676 MENTORING PRACTICUM FOR COUNSELORS (3) Fall/Spring  
Individually supervised graduate experience of instruction and research in a university setting as preparation for contemporary counseling curricula, evaluation, research, and teaching at all educational levels. Addresses the recently highlighted national career counseling core career competencies of teaching, administration, advocacy, and professional network. Course may be repeated for a maximum of six credits. *Prerequisite: advanced graduate status and permission of the instructor.*
- ED683 CLASSROOM MANAGEMENT (3) Fall  
Course is designed to familiarize students with the primary factors affecting the effective functioning of classrooms and to provide practical knowledge for preventing and resolving management problems.
- ED687 CURRICULUM THEORY AND ASSESSMENT (3) Fall  
The purpose of this course is to provide the educational leader with an understanding of the social and psychological bases for curriculum development, skills in small group leadership and communication, strategies for working with the various publics involved in curriculum change, and the conceptual base of development of curriculum theory. In addition, this course is designed for teachers to develop skills needed for determining social and academic student needs to enhance the systematic planning of curriculum.
- ED690 SPECIAL PROJECT (in lieu of Thesis only) (3-6) Fall/Spring
- ED691 OVERVIEW SEMINAR (3) Fall/Spring
- ED692 PRACTICUM IN COUNSELING (3) Fall/Spring  
Field placement setting emphasizing practical application of counseling skills and theories for advanced students in the counseling program. Grading system for this course is P/NC. *Prerequisite: ED619, ED620, ED621, ED622, ED623, ED624, ED625, PY420G, and consent of advisor.*
- ED692 ACTION RESEARCH/PRACTICUM (1-6)

A survey of action research theory and methods, focusing on theoretical, methodological, and ethical tenets with an emphasis on applied research in educational settings.

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| ED695 | THESIS (3-6)  | Fall/Spring |
| ED698 | <p>INTERNSHIP IN COUNSELING (3)</p> <p>The practice of counseling in a approved closely supervised setting for a total of 300 hours, at least 60 of which are direct client contact hours as approved by instructor. Interns meet regularly on campus or on-site with the faculty instructor. This internship may be taken over one semester for 6 credits or two consecutive semesters. Grading system: P/NC. <i>Prerequisite: ED692 and all other required courses.</i></p> | Fall/Spring |
| ED698 | <p>INTERNSHIP (3)</p> <p>The practice of administration and supervision in an educational setting is the goal of the program. Through the internship, a prospective administrator is exposed to the day to day operations of a school or educational setting. It is a critical transition prior to full time appointment in a position. <i>Prerequisite: At least three Administration/Supervision Specialization Graduate courses and consent of advisor.</i></p>            | Spring      |
| ED699 | <p>SPECIAL TOPICS (1-3)</p> <p>May be repeated in a different topic area. <i>Prerequisite: Graduate Status and instructor's approval.</i></p>   | Fall/Spring |

**ENGLISH (EN)** -----

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| EN450G           | <p>LITERARY FORMS (3)</p> <p>This course provides the opportunity for intensive study of literary modes or genres, (e.g., the lyric, drama, the novel, as part of the history of literary criticism or in the context of their own development, characteristics and representative works. With different subject matter, the course may be repeated for credit. <i>Prerequisites: EN210 or consent of instructor.</i></p>  | Fall              |
| EN460G           | <p>LITERATURES IN ENGLISH (3)</p> <p>This course offers an intensive study of representative work of authors writing in English, or of a related group of authors (e.g., the metaphysical poets, Commonwealth novelists, or Western Pacific writers). With different subject matter the course may be taken more than once for credit. <i>Prerequisites: EN313 or 314.</i></p>   | Spring            |
| EN/MI/<br>WG461G | <p>PACIFIC WOMEN WRITERS (3)</p> <p>This course entails an intensive study of representative works of Pacific Women Writers to acquaint the students with the contours—in terms of styles, themes, symbols, images, language, politics, and subject matter—of the writing of females who represent an emerging literature as well as a new exciting part of the region’s cultural heritage. Students will emerge with an understanding of the place of this literature in the larger context of Pacific Literature, Women’s Literature, Minority Literature and Contemporary Literature in English. <i>Prerequisites: EN210, EN323 or consent of the Instructor.</i></p> | Spring/Even Years |
| EN470G           | <p>LITERATURES IN TRANSLATION (3)</p> <p>This course is a study of representative world literature to acquaint the student with the sweep of history as represented in great works of literature. The course may be offered in the literatures of Europe, Asia, Africa, Latin America, the Middle East, and others. The course may be repeated for credit when different subject matter or periods are covered.</p>  | Fall/Even Years   |
| EN473G           | <p>MODERN JAPANESE NOVEL (3)</p> <p>This course features a study of selected modern Japanese novels against a background of social, political, and cultural developments from the end of the Meiji period (circa 1912) to the present. <i>Prerequisite: Any 200 level literature course (in English) or permission of the instructor.</i></p>  | Fall/Odd Years    |
| EN480G           | <p>LITERARY THEORY</p> <p>Mimetic, pragmatic, and objective theories are considered in relation to specific literary works. An emphasis is placed on twentieth-century criticism and contemporary critical movement and theories. Critical papers are required. <i>Prerequisite: 12 credit hours in literature courses.</i></p>  | S/Odd Years       |

ENVIRONMENTAL SCIENCE (EV) -----

- EV/MI506      PHYSICAL GEOGRAPHY OF MICRONESIA (3)      Fall/Even Years  
 This course is a study of the origin and characteristics of the physical environments and biogeography of Micronesia through an analysis of physical geographic elements, their patterns of distribution, interrelationships, and problems. *Prerequisites: Graduate standing or senior level.*
- EV510      ENVIRONMENTAL SCIENCE: BIOLOGY/ECOLOGY (3)      Fall  
 This course covers concepts of biology needed for further studies in environmental science. Ecological and biological principles are presented including an introduction to ecosystem ecology. Human impacts on the environment on a global and local scale are discussed. Three hours of lecture weekly.
- EV511      ENVIRONMENTAL SCIENCE: GEOLOGY/ENGINEERING (3)      Spring  
 This course is a survey of the key aspects of geology and engineering with which individuals involved in environmental resources investigations should be familiar. Topics include the hydrologic cycle, surface hydrogeology, groundwater movement, engineering measurements, statistical analysis, instrumentation for environmental investigations, and fundamentals of engineering geology and environmental geology. Three hours of lecture a week plus field trips. *Prerequisites: MA161a-b, CH100 and CH101 or equivalent.*
- EV512      ENVIRONMENTAL SCIENCE: MANAGEMENT (3)      Spring  
 An intensive survey of ethical positions, policy issues and management techniques as applied to the management of natural resources and the environment. Three hours of lecture a week.
- EV513      ENVIRONMENTAL IMPACT ASSESSMENTS (2)      Fall  
 Discussing, structuring, writing, and evaluating environmental impact assessments, particularly as they apply to Guam and other tropical islands. Course will focus on producing formal environmental impact statements for actual, proposed and hypothetical development projects on Guam.
- EV/BI516      GEOLOGY AND GEOMORPHOLOGY OF CORAL REEFS (4)      Spring/Even Years  
 Study of reef-facies development, with particular stress placed on the biological composition; physical structure; and geomorphologic and geologic evolution of coral/algal reefs in the Mariana Islands. Physio-chemical, biological, isostatic and tectonic processes contributing to reef destruction and to their transformation to limestone formations will be analyzed. Six hours of lecture/laboratory weekly; Several required field trips. *Prerequisite: NS201, BI101a-b or equivalent.*
- EV/MI517      CULTURAL ECOLOGY (3)      Fall/Odd Years  
 Cultural ecology looks at the relationship between humans and their biotic and physical environments. Using diachronic and comparative perspectives, this course will survey the cultural ecology of Micronesian islanders. Particular attention will be given to the following themes: history, theory, and methods of cultural ecology; comparison of different approaches to the study of cultural adaptation; adaptation in permissive and marginal environments; and culture change in spatial and temporal perspectives. The format emphasizes seminar discussions and student presentations, but will also include some lectures, slides, films and videos. *Prerequisite: Consent of instructor, MI501, MI502, or MI503.*
- EV/BI522      CONSERVATION BIOLOGY (4)      Spring/Odd Years  
 This course studies concepts of conservation biology. Ecological principles relating to conservation biology are covered, including individual traits, population characteristics, community ecology, and ecosystem ecology. Practical issues and controversies relating to species conservation will be discussed. Effects of deforestation, exotic species, tourism, and other human impacts are covered. This course stresses problem solving and includes studies of case histories of environmental problems and their solutions. Students will prepare a case study for a local problem. Six hours of lecture-laboratory weekly. *Prerequisite: Consent of Instructor.*
- EV524      ENVIRONMENTAL PLANT PHYSIOLOGY (4)      Fall/Even Years

A general overview will be presented of typical physiological responses of plants to the environmental pressures that are common in the Pacific region. Characterizing the responses of tolerant and intolerant species will give an understanding of the adaptive mechanisms of tolerant species.

- EV526 THE MICROBIAL ENVIRONMENT (3) Fall/Even Years  
The principles of microbiology are presented, covering the various groups of microorganisms: bacteria, fungi, algae, lichens, protozoa, viruses, and nematodes. The focus of the material covered is on environmental application of microbiology, with an introduction to qualitative and quantitative methodologies used in assaying these organisms. Two hours of lecture per week, and one three-hour laboratory. *Prerequisite: General biology or microbiology course.*
- EV/BI528 AQUATIC TOXICOLOGY (3) Spring/Odd Years  
Basic concepts of test methods used in aquatic toxicological studies. Emphasis on environmental toxicants, bioindicators, and biomarkers. Methodologies and instrumental analysis associated with qualitative and quantitative assessment of toxicants and pertinent water quality parameters. Interpretive evaluation of results as related to the aquatic environment. Two hours lectures a week and one three hour laboratory a week. *Prerequisite: EV/BI529.*
- EV/BI529 ENVIRONMENTAL CONTAMINATION & TOXICOLOGY (3) Spring/Even Years  
Principles and mechanisms governing the interaction of pollutants with natural systems. Fundamental concepts of toxicology, with particular emphasis on contaminant absorption, distribution, metabolism, carcinogenesis, toxicity testing, and risk assessment. Classic and contemporary pollution problems under the general headings of air, water, land, radiation, and occupational hazards. *Prerequisites: BI101a-b, CH101 and CH102 or equivalent.*
- EV/BI530 CHEMICAL ECOLOGY (3) Fall/Odd Years  
This course focuses on the field of chemical ecology and examines some of the differences in approach and results between terrestrial and marine studies. Chemical ecology is an interdisciplinary subject concerned with the biochemistry of plant and animal interactions. The course focuses on reading and discussing current literature in terrestrial and marine chemical ecology with an emphasis on such topics as plant-herbivore interactions, host choice, allelopathy, chemical communication (pheromones, attractants) and other behavioral and ecological interactions mediated by secondary chemistry. *Prerequisites: At least one course each in upper level undergraduate chemistry, biology, and ecology, or consent of instructor.*
- EV534 INSTRUMENTAL ANALYSIS FOR ENVIRONMENTAL SCIENTISTS (3) Fall/Odd Years  
This team-taught, survey course is designed to familiarize students with the fundamental principles of environmental sampling and analysis. It focuses on the methodologies and instrumentation currently used to determine a number of important chemical contaminants in the environment today. The course carries a strong practical component that exposes students to a range of state-of-the-art analytical technologies, including AAS, GLC, ASV, HPLC, IR, NMR and Mass Spec. Emphasis is placed on the importance of quality control and quality assurance protocols in the production of reliable and defensible data. *Prerequisites: CH103, CH330 or consent of lead instructor.*
- EV535 TROPICAL CLIMATE AND CLIMATE VARIABILITY (3) Fall/Even Years  
This course is a study of the climate of the world's tropical regions. Natural variations in rainfall are studies. Mechanisms for short-term fluctuations and long-term changes including El Niño, La Niña, Quasi-biennial stratospheric oscillations, and the ice ages are presented. Also discussed is what constitutes an optimal climate, and whether or not an ice age is worse than a warmer world. *Prerequisites: BI412G, EV511, BI503, or consent of instructor.*
- EV536 HURRICANES AND TYPHOONS: AN OVERVIEW OF TROPICAL CYCLONES (3) Spring/Odd Years  
This course focuses on tropical cyclones and explores their structure and physics of formation. The climatology of tropical cyclones is examined ranging from the global distribution to interannual variability and possible changes to tropical cyclone climate from an anticipated greenhouse-gas-induced global warming. *Prerequisites: MA203, PH251, PH210, CH102, CH102L, or consent of instructor.*

- EV537                    APPLICATION OF REMOTE SENSING TO WEATHER AND CLIMATE (3)                    Fall/Odd Years  
This course focuses on the applications of remote sensing platforms for observing and forecasting the weather, and for monitoring earth’s climate system. Students explore the history of the international meteorological satellite programs and the United States’ effort to modernize its weather satellite constellation. The history of the weather radar is explored, which culminates in the nationwide installation of NEXRAD Doppler weather radars (one of which is on Guam). Principles of satellite and radar physics are introduced. Interpretation of the structure of weather systems from satellite and radar imagery is covered. The use and function of the many instruments onboard satellites are described. Students participate in real-time investigations of local and regional weather patterns using satellite and radar imagery. *Prerequisites: MA203, PH210, CH251, CH102, CH102L, or consent of instructor.*
- EV542                    HYDROLOGY (3)                    Fall/Even Years  
An in-depth coverage of the topics in engineering hydrology with which all individuals involved in environmental resources investigations should be familiar. Topics will include the hydrologic cycle, surface and groundwater movement and engineering measurements, instrumentation, and analyses appropriate for environmental investigations. Three hours of lecture a week plus field trips. *Prerequisites: MA161a-b, BI412G, EV511 or equivalent.*
- EV543                    HYDROGEOLOGY (4)                    Spring/Odd Years  
An introduction to applied hydrogeology, with emphasis on fundamental physical and geological concepts and methods of analysis. Covers physical principles of groundwater movement, geologic origin and characteristics of aquifers, basic water chemistry and interaction with geologic materials, introduction to well hydraulics and aquifer evaluation, and environmental applications. Two hours of lecture plus three-hour lab each week. *Prerequisites: Elementary calculus (e.g., Math 203), basic college chemistry (e.g., Chem 102), and concurrent enrollment or completion of EV511 or permission of instructor.*
- EV546                    GEOLOGY OF PACIFIC ISLANDS (3)                    Fall/Odd Years  
Origin and geologic evolution of Pacific islands and island groups. This course focuses on the dynamic geologic processes and events that form the basic context for many contemporary environmental issues on Pacific islands. *Prerequisites: NS201, NS301, or equivalent, or consent of instructor.*
- EV548                    CHEMICAL AND WATER MOBILIZATION THROUGH TROPICAL SOILS (3)                    Spring/Even Years  
The nature of soil water and its movement in soils are explored. Principles governing the saturated and unsaturated flow of water and agricultural chemicals through porous media are covered. Applications of these principles to irrigation and drainage of agricultural lands, leaching of agrochemicals below root zone and eventually to groundwater will be discussed. *Prerequisite: MA203 or equivalent or consent of instructor.*
- EV/BI550                    BIOGEOCHEMISTRY (3)                    Spring/Odd Years  
This course explores the elements important to life, their interaction and cycling within the biosphere. Mathematical models of biogeochemical fluxes along the land-ocean continuum and within terrestrial, freshwater and marine ecosystems are discussed. Emphasis is placed on the evolution of classical paradigms and modifications of them as they appear in the current literature. Three hours of lecture/field trips weekly. *Prerequisites: A background in upper level undergraduate chemistry, ecology, and mathematics is suggested. Consent of instructor required.*
- EV/BI551                    ASSESSMENT AND MANAGEMENT OF CORAL REEFS (6)                    Summer/Odd Years  
This course provides both the scientific background and the applied methods necessary for dealing with the complex combinations of stresses and disturbances to coral reefs and coral-reef resources brought about by developing economies, technologies, populations and societies. It provides the scientific foundation and technical training necessary for personnel of government agencies dealing with resource management in Micronesia *Prerequisites: Introduction to Biology and a course in Ecology or permission of instructor.*

EV552	EVALUATION OF ENVIRONMENTAL POLICIES AND PROGRAMS (3) A theoretical and applied course in the economics of natural resources. <i>Prerequisites: A course in calculus and either EV512 or an upper division courses in economics.</i>	Fall/Even Years
EV554	ENVIRONMENTAL PLANNING AND APPLIED PRACTICE (3) This seminar focuses on methods for environmental conflict resolution. The aim is to enhance students' abilities to create and apply knowledge within organizational settings. Students will conduct projects in cooperation with agencies or organizations to gain experience in planning, public involvement strategies, impact mitigation, program development and policy implementation. Class activity is discussion oriented with assigned topic leadership by the students, instructor and guest speakers. <i>Prerequisites: EV512 and EV513.</i>	Spring/Odd Years
EV560	TROPICAL TURFGRASS MANAGEMENT (3) This course emphasizes topics relating to turfgrass management practices in tropical climates. It is designed to familiarize students with the specific characteristics of turf and the turfgrass environment, and provide practical information on how to manage both. Strong emphasis is placed on management strategies designed for local conditions. Three hours of lecture/field trips weekly. <i>Prerequisites: BI157, BI158, CH100, CH101, or consent of instructor.</i>	Fall/Even Years
EV561	URBAN LANDSCAPE MANAGEMENT (3) This course focuses on the integration of ecological theory with vegetation management and includes aspects of horticulture, landscape design, recreation studies, planning and financial management. This course emphasizes the use and management of indigenous and introduced vegetation in the public landscape and explores both scientific and philosophical ideas on reasons for undertaking certain practices.	Fall/Even Years
EV563	MANAGEMENT AND RECYCLING OF ORGANIC WASTES (3) This course focuses on various management practices and technologies dealing with handling, storage, and conversion of animal waste and plant by-products to useful energy, animal feed, and fertilizer. Recycling and processing methods such as drying, rendering, composting, fermentation, extruding, and bio-gas production are also covered. <i>Prerequisite: consent of instructor.</i>	Fall/Odd Years
EV566	AGROECOLOGY OF TROPICAL ISLANDS (3) This course presents an examination of tropical agricultural systems, environmental impacts and problems from an ecological perspective. Topics will include the tropical environment, ecological concepts and agricultural sustainability, and biotic diversity of tropical islands. Three hours lecture per week.	Spring/Odd Years
EV598	ENVIRONMENTAL SCIENCE INTERNSHIP (1) Students gain professional skills in the environmental market place working with a mentor at a local environmental or engineering firm or an appropriate GovGuam or Federal Government agency. This course can be taken twice, but a maximum of two total credits will be allowed as electives toward the Master of Science Degree. Students are expected to intern between 10 and 12 hours per week per credit of EV598.	Fall/Spring
EV691a,b	ENVIRONMENTAL SCIENCE SEMINAR (1) Seminar on research topics in the environmental sciences.	Fall/Spring
EV695	ENVIRONMENTAL SCIENCE THESIS (6)	Fall/Spring

**HISTORY (HI) -----**

HI420G	TOPICS IN WESTERN HISTORY (3)	Spring
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This course is an intensive study of a specific topic or problem in Western History. With different subject matter, the course may be taken more than once for credit. Prerequisite: HI121 or HI122

HI444G MODERN PACIFIC HISTORY FROM 1850 TO THE PRESENT (3) Fall/Even Years  
This course covers colonial and post-colonial rule in the Pacific. Prerequisite: HI121 or HI122.

HI450G TOPICS IN PACIFIC HISTORY (3) Spring  
This course is an intensive study of a specific topic or problem in Pacific History. With different subject matter, this course may be taken more than once for credit. Prerequisite: HI121 or HI122

HI455G TOPICS IN PRE-MODERN HISTORY (3) Fall/Odd Years  
This course is an intensive study of a specific topic or problem in Pre-Modern History. With different subject matter, this course may be taken more than once for credit. Prerequisite: HI121 or HI122

HI474G HISTORY OF MODERN JAPAN (3) Spring/Even Years  
This course focuses on the political, social, diplomatic, and economic development of modern Japan from the beginning of the Tokugawa Shogunate (1603) to the present. Attention is also given to Japan's response to the west.

HI476G HISTORY OF MODERN CHINA (3) Fall/Odd Years  
This course examines the transition from traditional to modern China, China's entry into the modern world, and China under the Communist Regime.

HI478G THE HISTORY OF MODERN KOREA (3) Fall/Even Years  
This course emphasizes the evolution of Korea from the Yi Dynasty (1392–1910) to the present. Prerequisite: HI122.

HI480G TOPICS IN ASIAN HISTORY (3) Fall  
This course is an intensive study of a specific topic or problem in Asian History. With different subject matter, this course may be taken more than once for credit. Prerequisite: HI121 or HI122

LINGUISTICS (LN) -----

LN400G APPLIED LINGUISTICS (3) Fall  
This course covers methods of teaching English as a second language. It familiarizes students with test drills, activities, and exercises used in ESL programs. Work on materials preparation dealing with phonological, syntactical, and semantic problems is included. Prerequisite: LN300 or consent of instructor.

LN401G HISTORY OF THE ENGLISH LANGUAGE (3) Spring/Even Years  
This course is an historical survey of the sound, structure, and syntax of the English language from 900 A.D. to the present. Prerequisite: LN300 or consent of instructor.

LN440G TOPICS IN LINGUISTICS (3) As resources permit  
Courses included under this umbrella course provide undergraduate and graduate students with advanced study of specific topics within the study of language. These topics focus attention on language use, language analysis, and language learning. Special attention will be paid, where possible, to Pacific languages and cultures. The course may be repeated for credit with different topics. Prerequisite: LN300 or consent of instructor.

LN440G/a TOPICS IN LINGUISTICS: ETHNOGRAPHY OF SPEAKING (3) As resources permit  
Ethnography of Speaking explores the links between the study of language, oral and written literature, folklore, and language education. It examines and analyzes the relationship between language, language use, culture performance and context in different speech communities. Prerequisite: LN300 or consent of instructor.



- LN440G/b TOPICS IN LINGUISTICS: PRAGMATICS (3) As resources permit  
Pragmatics presents an exploration of what we actually do with our language. Following a cross-cultural approach, the course analyzes the ways we use our language to do what we want it to do and say what we really mean in various contexts and situations. *Prerequisite: LN300 or consent of instructor.*
- LN460G INTRODUCTION TO SOCIOLINGUISTICS (3) Fall/Odd Years  
This course is an introduction to current sociolinguistic studies. Emphasis is placed on the nature of the speech community, speech events, societal bilingualism, and language constraints. Additional emphasis is placed on practical application of basic sociolinguistic concepts. *Prerequisite: LN300 or consent of instructor.*
- LN/ED662 SECOND LANGUAGE TESTING AND EVALUATION (3) Fall  
This is a course in which all the techniques of teaching a second language are united and related to their effectiveness according to parameters derived from language acquisition theory and statistical quantification. *Prerequisite: Native or native-like proficiency in English and familiarity with a second language. Also, familiarity with basic arithmetic and algebra.*
- LN/ED663 SEMINAR IN PSYCHOLINGUISTICS (3) Spring/Even Years  
This course provides fundamental knowledge of psycholinguistics and emphasizes its interdisciplinary nature. It encompasses the processes underlying the acquisition of a language and the factors that influence these processes. *Prerequisite: LN300.*

**MATHEMATICS (MA) -----**

- MA411G INTRODUCTION TO ABSTRACT ALGEBRA (3) Spring/Even Years  
This course offers a study of modern algebra with topics from group theory and ring theory. *Prerequisites: Grades of C or better in both MA205 and MA302.*
- MA421G INTRODUCTION TO ANALYSIS I (3) Fall/Even Years  
This is the first course in a two-semester sequence designed to provide an introduction to the rigorous study of the foundations of calculus. Topics covered include the completeness of the real numbers, elementary topology, continuous functions, and numerical sequences and series. *Prerequisites: Grades of C or better in MA205 and MA302.*
- MA422G INTRODUCTION TO ANALYSIS II (3) Spring/Odd Years  
This is the second course in a two-semester sequence designed to provide an introduction to the rigorous study of the foundations of calculus. Topics covered include differentiation, integration, sequences and series of functions. *Prerequisite: A grade of C or better in MA421G.*
- MA431G TOPICS IN ADVANCED MATHEMATICS (3) Spring/Even Years  
This course offers selected topics in advanced mathematics such as topology, mathematical induction, non-Euclidean geometries. With different subject matter may be repeated for credit. *Prerequisite: Grades of C or above in MA205 and MA302.*
- MA441G MODERN GEOMETRY (3) Spring/Odd Years  
This course treats non-Euclidean and advanced Euclidean geometry. *Prerequisites: Grades of C or better in both MA205 and MA302.*
- MA451G PROBABILITY AND STATISTICS (3) Fall/Even Years  
This course covers probability models and distributions, including univariate and multivariate distributions, and provides an introduction to parametric and nonparametric decision theory. *Prerequisites: MA151 or equivalent and grade of C or better in MA302. Corequisite: MA205.*
- MA453G/H OPERATIONS RESEARCH MODELS (3) Fall/Odd Years

Operations research models are designed to optimize, maximize, or minimize real world processes. Computer methods and packages are included for linear and dynamic programming, life and death processes, P.E.R.T.-C.P.M., trend analysis and queueing theory. *Prerequisites: MA341 and MA385.*

MA460G NUMERICAL LINEAR ALGEBRA (3) Spring/Odd Years  
 This course covers topics such as numerical solutions to systems of linear equations; linear least squares problems; eigenvalue and eigenvector problems. Methods include Gauss-Jordan elimination, Siedel iterating, the QR algorithm and linear optimization. It includes the use of numerical software libraries. *Prerequisites: Grades of C or better in MA205, MA302, and MA341.*

MA461G NUMERICAL ANALYSIS (3) Fall/Odd Years  
 This course covers: root finding for non-linear equations, numerical integration, numerical methods for ordinary differential equations, interpolation theory, and approximation functions. The course makes use of numerical software libraries. *Prerequisites: Grade of C or better in MA205 and MA302.*

**MICRONESIAN STUDIES (MI) -----**

MI501 PEOPLES AND CULTURES OF MICRONESIA (3) Fall  
 This course provides a comprehensive overview of the cultures and societies of the Micronesian area. *Prerequisite: Introduction to Cultural Anthropology or permission of the instructor.*

MI502 HISTORY OF MICRONESIA (3) Spring  
 This course provides a comprehensive understanding of a thematic historical approach of the Micronesian region. A critical examination of the various forms of historical evidence, both indigenous and Western, pertaining to the region will be addressed. *Prerequisite: Consent of instructor.*

MI503 CONTEMPORARY ISSUES AND PROBLEMS (3) Spring  
 This course provides an in-depth understanding of contemporary issues and problems facing Micronesian society: economic development, political status and change, ethnicity and population shift, resources and environment, social and health problems. *Prerequisite: Consent of instructor.*

MI/EV506 PHYSICAL GEOGRAPHY OF MICRONESIA (3) Fall/Even Years  
 This course is a study of the origin and characteristics of the physical environments and biogeography of Micronesia through an analysis of physical geographic elements, their patterns of distribution, interrelationships, and problems. *Prerequisites: Graduate standing or senior level.*

MI/PI508 MICRONESIAN PHILOSOPHY (3) Spring/Odd Years  
 This course examines the various approaches to philosophy found in Micronesia. Philosophy is framed by historical and cultural conditions. This course will explicate the meaning and significance of philosophical wisdom for the dominant cultures, past and present, in Micronesia. *Prerequisite: Graduate standing.*

MI510 POLITICAL DEVELOPMENT IN THE AMERICAN PACIFIC (3) Fall/Even Years  
 This course is an analysis of the geopolitics that impelled colonization of American Micronesia, and of the political evolution of each entity of the former Trust Territory of the Pacific Islands and of Guam. *Prerequisites: MI501 and MI502.*

MI512 GUAM/CHAMORRO STUDIES (3) Spring/Even Years  
 This seminar is an historical analysis of Guam's colonial legacy and a critical examination of major contemporary issues including Chamorro cultural survival, land, social and economic development, political status, religion, and modern modes of scholarly inquiry in Guam. This seminar presupposes introductory courses in the History of Guam (HI211) or related disciplines such as Culture and Education in Guam (ED265); Government and Politics of Guam (PS303); Introduction to Guam Community (SO280); Introduction to Community Services on Guam (SW110).

MI513 RESEARCH METHODOLOGY IN SOCIAL SCIENCES (3) Spring

Basic research design, sampling techniques, survey procedures, and systematic observation strategies are presented. A strong emphasis is placed on writing skills and the oral presentation of research findings. *Prerequisite: Consent of instructor.*

- MI514 HEALTH AND HUMAN ADAPTION IN MICRONESIA (3) Spring/Odd Years  
Primarily rooted in medical anthropology, this course uses a multidisciplinary approach to look at the status of health and human adaptation in Micronesia. By using specific examples of disease patterns, adaptation is looked at as an evolutionary process as well as synchronically. Strong emphasis is placed on the changing map of health and disease, generally in the Pacific and specifically in the Micronesian Islands. Along with medical anthropology, ideas and methods from related fields such as medical geography and epidemiology have also been incorporated into course materials. Following a broad overview of medical anthropology with introductions to its related fields, ideas and concepts central to health and adaptation will be presented, followed by case studies from Micronesia and the Pacific. *Prerequisite: Graduate standing.*
- MI/EV517 CULTURAL ECOLOGY (3) Fall/Odd Years  
Cultural ecology looks at the relationship between humans and their biotic and physical environments. Using diachronic and comparative perspectives, this course will survey the cultural ecology of Micronesian islanders. Particular attention will be given to the following themes: history, theory, and methods of cultural ecology; comparison of different approaches to the study of cultural adaptation; adaptation in permissive and marginal environments; and culture change in spatial and temporal perspectives. The format emphasizes seminar discussions and student presentations, but will also include some lectures, slides, films and videos. *Prerequisite: Consent of instructor, MI501, MI502, or MI503.*
- MI518 RELIGION, MAGIC, AND MYTH IN MICRONESIA (3) Spring/Even Years  
This course surveys the traditional religions of Micronesia, with an emphasis on myth and ritual. Analysis of select samples of traditional ritual and myth from primary sources. Critical analysis is emphasized. *Prerequisite: One proseminar course or consent of instructor.*
- MI520 ECONOMIC DEVELOPMENT AND CHANGE IN MICRONESIA (3) Fall/Odd Years  
The seminar provides an overview of Micronesian economic systems past and present; focus is on the present as the new nations confront the need to develop market-based economies within a global context of diminishing resources and soaring populations.
- MI599 READINGS IN MICRONESIAN STUDIES (3) Fall/Spring  
a,b,c,d This course provides students an initial opportunity to explore, via a schedule of in-depth readings, a range of topics and issues in cultural ecology and resource management; human services and community health; social, political, and economic issues; and culture, history, language, and the arts. *Prerequisite: MI501, 502, and 503.*
- MI691 SEMINAR IN MICRONESIAN STUDIES (3) Fall/Spring  
a,b,c,d This course provides students an opportunity to pursue in-depth reading and individualized or small group research projects on selected topics in cultural ecology and resource management; human services and community health; social, political, and economic issues; and culture, history, language, and the arts. *Prerequisite: MI501, 502, 503, 599.*
- MI695 THESIS (3) Fall/Spring

**PUBLIC ADMINISTRATION (PA) -----**

- PA/AG401G COMMUNITY PLANNING (3) Fall/Odd Years  
This course is an introduction to community planning; relationships of physical form to environment, function, aesthetic principles, cultural values, planning as a synthesis of a frame of reference based on economic, political, social, cultural, physical, and administrative factors. *Prerequisite: SO101.*
- PA501 INTRODUCTION TO RESEARCH (3) Fall/Spring

Concentrated study of research methodology, including planning, organizing and executing research projects; techniques of gathering data; use of library facilities and other sources of information; analysis and interpretation of data; the art and strategy of presenting oral and written findings.  
*Prerequisites: MA385 and graduate standing.*

- PA510 ADMINISTRATIVE THOUGHT (3) Fall  
 This course offers an overview of classic and contemporary theories of public administration and bureaucracy. The role and process of American public administration are studied in the social and political context of legislatures, executives, legal and judicial structures, and in relationship to political parties and clientele groups. The modern administrative state and its illustrations of democratic theory and practice, are examined.
- PA525 PUBLIC BUDGETING (3) Fall  
 Budgetary practices of federal, state, territorial, and local governments. The budget cycle, budget preparation, and execution. Includes techniques such as PPB (Planning, Programming, Budgeting) in the Federal government and zero-base in GovGuam budgeting.
- PA526 PRIVATE ENTERPRISE AND PUBLIC POLICY (3) Spring  
 Governmental process in the formulation of policy in relation to the private enterprise sector. Framework and organization of administrative agencies in the regulation and supervision of private industry. Nature of the "public interest" and the interrelationship of interests affecting governmental policy toward business enterprise.
- PA530 PUBLIC MANAGEMENT (3) Fall  
 The study of government organization management practices and problems; the general effectiveness of major agencies including their relationships with U.S., local legislative bodies, clientele and other governmental units and public bodies. This course establishes the broad parameters of what constitutes the major roles, responsibilities and activities of public managers. This course is particularly suited for students with limited background in public management. Stress is placed on the development of analytical techniques that are useful in the identification and resolution of commonly occurring problems in public management.
- PA535 INTERGOVERNMENTAL RELATIONS (3) Spring  
 Study of the dynamics of relations among governmental units, including the movement towards regionalization and councils of government. Study of the impact of "new federalism" concepts and revenue sharing upon states, territories and of local issues and problems.
- PA540 ADMINISTRATIVE LAW (3) Spring  
 Study of administrative law, including issues of separation of powers; regulatory commissions; processes of administrative adjudication; and judicial review.
- PA545 ORGANIZATIONAL BEHAVIOR AND THEORY (3) Fall/Spring  
 Readings and discussion of advanced organization and management theory including organization, systems design and analysis, decision theory, power, politics, and authority. *Prerequisite: MG351.*
- PA550 COMPARATIVE PUBLIC ADMINISTRATION (3) Fall/Even Years  
 Administrative structures and processes of industrialized and developing areas of the world. Distribution of government services in the various bureaucratic organizations.
- PA/BA560 MORAL AND SOCIAL RESPONSIBILITY OF ORGANIZATIONS (3) Spring  
 An examination of the meaning of business ethics and its significance in business decision making. By thoughtful analysis of the moral issues raised by business practices, graduate students will raise their comprehension of the moral decisions of business. Students will apply ethical theories and concepts to social issues. In addition, students will gain practice during examinations and interpretations of positions taken by various stakeholder groups affected by business and vice-versa.
- PA561 PUBLIC PLANNING (3) Spring/Even Years

This course deals with methods of social, economic, and physical planning. The concept of planning is approached from the theoretical, methodological and philosophical perspectives. It focuses on problem analysis to the final stages of program implementation and evaluation.

- PA565 PUBLIC CONTRACTING POLICY AND PRACTICES (3) Spring/Odd Years  
 An examination of the legal and regulatory framework governing public contracting within the dimensions of past and present national and local objectives. A particular emphasis is placed on its contribution to government efficiency and effectiveness.
- PA570 SPECIAL TOPICS IN PUBLIC PERSONNEL ADMINISTRATION (3) Summer  
 a) Policy; b) Sanctions; c) Employment Law; d) Organizations; e) Systems  
 Current problems and issues in the management of government programs. The changing character of public management as affected by citizen participation and representation, community action groups, minority employment, environmental concerns, upward mobility, development crises and problems, labor-management relations, public interest advocacy, decentralization and devaluation of administrative activities, and management information systems.
- PA598 INTERNSHIP: Public Administration (3) Fall/Spring
- PA690 SPECIAL PROJECT (in lieu of Thesis only) (3) Fall/Spring  
 Course is open to students admitted to degree candidacy and qualified to do independent study in business, economics or public administration under the direction of a professor in the field.
- PA692 PRACTICUM (3) Fall/Spring  
 Applied research in the field under the guidance of a major professor. *Prerequisite: Consent of MPA Chair.*
- PA695 THESIS (6) Fall/Spring

**PHYSICAL EDUCATION (PE) -----**

- PE422G MOTOR DEVELOPMENT, LEARNING AND PERFORMANCE (3) Fall/Even Years  
 This course traces human motor development and learning from birth through adulthood. It focuses upon the relationship of the environment, the task, and the individual to development and learning. *Prerequisites: EN111, PY101, ED201, and BI124-124L all with a grade of "C" or above.*
- PE450G RESEARCH AND EVALUATION IN EXERCISE SCIENCE, HEALTH FITNESS, AND SPORT (3) Spring/Even Years  
 This course presents basic and applied research principles and methodologies as well as their application to the testing and evaluation of physical performance and associated behavior in exercise science, wellness, physical education, and sport. *Prerequisites: EN111, MA151, PE322, PE324, PE350 and PE422 with "C" or better or consent of instructor.*
- PE454G ADAPTED AND DEVELOPMENTAL PHYSICAL EDUCATION, RECREATION AND DANCE (3) Spring/Even Years  
 This course emphasizes assessment, design and implementation of physical education meets the developmental characteristics and special needs of pre-school and school age children, youth, and adults including those with disabilities or health related impairments. Particular attention is paid to adaptations to instruction, equipment and facilities to accommodate and individualize PE instruction for students with disabilities in schools and participants in community settings. *Prerequisites: ED201, ED300 and either PE352, 392a or 353, 392b with a grade of "C" or above.*
- PE470G DEVELOPING CURRICULUM IN HEALTH,

PHYSICAL EDUCATION AND DANCE (3) Spring/Odd Years  
 This course prepares teachers of Physical Education and Health, to design sequential and developmentally appropriate curricula and to assess students and program success based upon local national standards. A variety of philosophical frameworks upon which curricula can be designed are examined along with the history of physical education and health. *Prerequisites: PE352, PE392a and PE353, PE392b with a grade of "C" or better or co-registration. Completion of PE422 is recommended prior to entrance in course.*

**PHILOSOPHY (PI) -----**

PI481G Fall  
 SELECTED TOPICS IN PHILOSOPHY (3)  
 Each time this course is offered it covers one specific area of philosophy or one particular philosopher. Possible course topics include Existentialism, Epistemology, Metaphysics, Environmental Ethics, Medical Ethics, Legal Ethics, the Philosophy of Plato, the Philosophy of Aristotle, the Philosophy of Samkara, the Philosophy of Lao Tzu.

PI486G Summer/Odd Years  
 TRAVEL STUDIES IN ASIA (3)  
 Philosophy students and others interested in gaining a direct intensive exposure to Asian culture and philosophy will be interested in participating in this course. Each summer one of the faculty in the philosophy program will take a group of students into a particular Asian country of choice. At this time, destination of this course is planned to be either India, Tibet, China, or Japan. This course is invaluable for students who are specializing in Asian philosophy, though anyone could benefit from this unique opportunity to gain a direct encounter with one of these countries under the guidance of an expert in the culture and religion/philosophy of that particular country.

PI/MI508 Spring/Odd Years  
 MICRONESIAN PHILOSOPHY (3)  
 This course examines the various approaches to philosophy found in Micronesia. Philosophy is framed by historical and cultural conditions. This course will explicate the meaning and significance of philosophical wisdom for the dominant cultures, past and present, in Micronesia. *Prerequisite: Graduate standing.*

**PSYCHOLOGY (PY) -----**

PY413G Fall  
 RESEARCH METHODOLOGY IN THE BEHAVIORAL SCIENCES (3)  
 This course is an intensive study of selected research topics in the behavioral sciences, with emphasis on formulating and presenting research. *Prerequisites: PY101 and MA385.*

PY420G Fall/Spring  
 ABNORMAL PSYCHOLOGY (3)  
 This course covers the study of historical changes in theories and methods of treatment; theory of personality development; dynamics of adjustment; the symptoms, dynamics, therapy, and prognosis of the various abnormal reaction patterns, both functional and organic; and modern theories and methods of diagnosis, therapy, and prevention. *Prerequisite: PY101.*

PY426G Fall/Odd Years  
 PERSONALITY THEORY (3)  
 Personality concepts and dynamics are studied in terms of behavior theory and Freudian psychoanalysis. *Prerequisite: PY101 and graduate standing.*

PY440G Fall  
 SOCIAL PSYCHOLOGY (3)  
 This course is an analysis of the social factors in the development of personality; the nature and function of social interaction and attitudes; various significant aspects of group membership. *Prerequisite: PY101.*

PY/WG455G Spring/Even Years  
 PSYCHOLOGY OF WOMEN (3)

This course offers a study of women, what it means biologically and socially to be a woman, and how these factors are incorporated into the behavior, thoughts, and feelings of girls and women. The study of women is placed in the context of women of the Micronesian region through examination of research, legend, and documentary reports. *Prerequisite: PY101.*

PY475G                      MICRONESIA AND MENTAL HEALTH (3)                      Spring/Even Years  
This course offers an examination of mental health services and problems in Micronesia. Geography, political systems, health problems, peoples and cultures provide the context for a detailed examination of mental health and social change concerns within our region. Prevalence of psychiatric disorders within Micronesia, applications of psychological interventions to regional concerns, and Micronesian perspectives toward psychology are the primary focus of the course. *Prerequisites: PY101, PY370, PY420, or consent of instructor.*

**SOCIOLOGY (SO) -----**

SO/AN405G                      COMMUNITY DEVELOPMENT (3)                      Spring/Odd Years  
This is a study of applied sociology and anthropology, emphasizing social processes and programs of planned change on the community level in parts of the world currently undergoing technical development. *Prerequisites: SO101/350 and MA385, or consent of instructor.*

**WOMEN AND GENDER STUDIES (WG) -----**

WG/PY455G                      PSYCHOLOGY OF WOMEN (3)                      Spring/Even Years  
This course offers a study of women, what it means biologically and socially to be a woman, and how these factors are incorporated into the behavior, thoughts, and feelings of girls and women. The study of women is placed in the context of women of the Micronesian region through examination of research, legend, and documentary reports. *Prerequisite: PY101.*

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