

PROPOSAL FOR NEW PROGRAM OR PROGRAM CHANGE

College Engineering and Natural Sciences

Department N/A

Program name: International Engineering and Natural Science Certificate

Effective what semester? Fall 2007

**For Program Changes,
photocopy the existing
catalog text (pages
_____) in this column.**

*Be sure you include all
catalog text that pertains
to this program change.*

NEW CERTIFICATE

This International Engineering and Natural Science Certificate is available to all CENS majors who are maintaining a GPA of 2.5 or above. The certificate is available only to degree-seeking CENS majors; it will be awarded upon completion of CENS B.S. or B.A. degrees. The certificate consists of the following requirements, totaling 9 upper division and 6 lower division credits (15 total):

Certificate requirements for NAU students:

- 3 credits: Foreign Language Proficiency. one upper-division foreign language course, or equivalent CLEP credit, or one discipline-specific (based on the student's major) course taught in a non-English language.
- 3 credits: International Study or Internship. CENS 497 (CENS Independent Study: International Experiences in Engineering and Natural Sciences)
- 9 credits: International-themed coursework. POS120 (World Politics) plus six credits chosen from: ANT102, ANT103, REL150, GGR240, GGR241, GGR370W, POS360, POS380, POS480, POS482, ECO483, ECO486, HUM261, HUM281, HUM382, CENS396
- No more than 6 credits of total coursework may be lower division.
- Certain other NAU courses may be eligible for substitution for any of the above courses with petition/approval by CENS dean's office.

All courses must be passed with a grade of C or better. The certificate explicitly requires foreign language proficiency. Students electing to pursue an international experience in an English-speaking country or institution abroad must still satisfy the language requirement by demonstrating proficiency (as outlined in bullet one, above) in a foreign language of their choice.

This certificate will also be available to foreign students pursuing CENS degrees at their home institution and who visit NAU as a study-abroad destination. The requirements for awarding the certificate to such students are:

- Must attend NAU for at least one full semester.
- 6 credits: must enroll in at least in two discipline-related (based on student's major) CENS courses numbered 200 or above.
- POS 120, plus 6 credits selected from:
ANT102, ANT103, REL150, GGR240, GGR241, GGR370W,
POS360, POS380, POS480, POS482, ECO483, ECO486, HUM261,
HUM281, HUM382, CENS396
- No more than 6 credits of total coursework may be lower division.
- International students may petition to apply at most 3-credits of equivalent coursework taken at their home institution to the above requirements.
- Certain other NAU courses may be eligible for substitution for any of the above courses with petition/approval by CET Intl. Committee.

All courses must be passed with a grade of C or better. These certificates will be awarded by NAU either with or after their graduation from their home institution.

The certificate is administered by the College of Engineering and Natural Sciences. All applications, petitions, and requests related to the certificate should be directed to the CENS dean's office.

Justification for proposal:

One of the most prominent characteristics of corporate and economic evolution within the last decade has been an increasing trend towards globalization. Spurred by the rapid development of Internet technology, many companies have expanded into the global marketplace, either through mergers with foreign corporations, or by establishing foreign affiliates. This has led to a tremendous demand for internationally trained engineers and scientists who are able to work effectively in research and development teams that span national, cultural, political, and linguistic borders.

The goal of this certificate program is to (a) explicitly encourage international study as a component of engineering and natural science curriculums in the College of Engineering and Natural Sciences (CENS), and (b) to provide a tangible reward for students who take the initiative to pursue international training.

With respect to the provision for awarding the certificate to visiting international students, the objective is to provide an added incentive for foreign students to choose NAU as their study-abroad destination. In addition to providing NAU students with international exposure through their presence and participation in CENS courses, such students are may provide substantial revenue as fee-paying out-of-state students.

If this program will require additional faculty, space, or equipment, how will these requirements be satisfied?

N/A. This certificate is based almost entirely on existing courses. Existing faculty are already teaching the courses involved in this certificate program; the CENS dean's office (probably via the CENS Intl. Committee) will administerevaluation of progress and awarding of certificates.

Will this program affect other programs, curricula, or enrollment at NAU? If so, attach documentation from the affected departments.

No.

Will this program affect community colleges? If so, attach documentation from the affected institutions.

No.

Will present library holdings support this program?

Yes.

Certifications

Department chair (if appropriate)	Date
Chair of college curriculum committee	Date
Dean of college	Date

For committee use only

For University Curriculum Committee Of University Graduate Committee	Date		
Action taken: _____ approved as submitted	_____ approved as modified	_____ deferred (returned to department)	_____ other
Reason: _____			

Note: Submit original to associate provost's office. That office will provide copies to the college dean, department chair, registrar's office, and catalog editor after approval.