**PROAC Form 1**

**NMC MISSION STATEMENT**

CNMI Constitution. Amendment No. 38, Section 2: “The mission of Northern Marianas College shall be to provide the best quality and meaningful postsecondary and adult education opportunities for the purpose of improving the quality of life for the individual and for the Commonwealth as a whole. The College shall be responsible for providing education in the areas of adult and continuing education, postsecondary and adult vocational education and professional development for the people of the Commonwealth.”

**PROGRAM MISSION STATEMENT**

The NRM program mission is to support local initiatives and priorities developed within the islands toward conserving and protecting its precious natural resources, and to promote the efficient use of human, institutional, and financial resources to meet local and regional goals and objectives. A key element within the program is effective capacity building and development at both the institutional and community level, reducing the reliance on external expertise and increasing the ability and capacity of local institutions and individuals to address the ever increasing environmental challenges faced by the islands. The NRM program curriculum encourages and follows a regional approach to solving problems and developing strategies through working in cooperation with the local agencies, organizations, and individuals toward producing effective management of the region’s coral reefs, fisheries, marine biotechnology, and ocean resources.

### INTENDED PROGRAM/SERVICE OUTCOMES

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<th>Intended Service Outcomes</th>
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<td>1. Students will be able to demonstrate an understanding of the methodology of system integration and best practices of conservation and sustainable management and development...</td>
<td>All NRM students are required to take NR 150 Intro to Natural Resource Management &amp; NR 153 Environmental Conservation, two of the beginning program's courses requirements. These courses continue the study of hazardous waste...</td>
<td>The NR 150 Intro to NRM, NR 153 Environmental Conservation, NR 253 Species and Ecosystem Management, NR 255 Conservation Politics and Economics, and NR 290 Special Topics have been taught for the past two to five semesters inclusive...</td>
<td>The seven courses under review, namely, NR 150, NR 153, and the capstone courses, namely, NR 253, NR 255, NR 290, NR 295 and NR 298 have been successful with respect to their SLOs requirements being met and their relatively...</td>
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and pollution management; and the human impact on the use, degradation, restoration, and the long term conservation & sustainable management of resources that include land, sea, water, and air. Students are assessed on their comprehension of the methodology of system integration and best practices of conservation management.

The modes of assessments are the Pre- and Post Modular Evaluation (written test and exams), Research/Case Reports, and students oral presentations of their research projects:

1) Seventy (70) percent of students will effectively understand, demonstrate, and value the human impact on the use, degradation, restoration, and conservation, as well as long term sustainable management of land, water, and air.

of (Fall 2010 & Spring 2011 & Fall 2011; and Spring 2012 & Fall, 2012; and Spring 2013)

NR 150: Introduction to Natural Resources Management. This course was initially offered as one of the two beginning program courses for the NRM degree program in Fall 2010. Of the 15 students who enrolled, 14 students or 92 percent earned the completion rate. In the Fall 2011, 16 students enrolled with 12 students passing or 75 percent completion rates. This course was offered again during the Spring 2012 with 19 students enrolled, and 17 students passing or 89 percent completion rates. In Fall 2012, ___ students enrolled and ___ students passed with completion rate of ___ percent.

In the Spring 2013, 17 students enrolled with an average grade of 82 percent. 11 students were above average and only 6 students were below average or 100 percent passing rates.

NR 153: Environmental Conservation-This course was also initially offered as one of the two program courses during the NRM renewal period in Fall 2010. Of the ten students who enrolled, 90 percent earned the completion rate.

Of the nine students who attended the Spring 2011 Semester, the average grade for all course requirements is 90 percent. Only three students were below average and one student got incomplete due to some emergency family problems. The student finally completed the course the following term thus the completion rate was 100 percent. The completion rate has been consistent until Spring 2013 where out of 11 students, only 3 students passed thus a very low 27 percent passing or completion rate.

Overall, except for last Spring term(2013) for NR 153, all the past terms exceeded the desired 70 % success rate for the two beginning program courses.

NR 253 Species and Ecosystem Management was offered twice during Spring and Fall 2011. with five and four (with graduating) students enrolled for higher rate of completion rates compared to the same courses undertaken during the previous years i.e. before the renewal of the NRM Program (2010).

Overall, the completion rates for NR 150 and NR 153 are significantly successful for the students to continue at the next level of advanced courses, particularly in the capstone courses.

Generally, for the the capstone courses, the students both orally and in writing have presented their required output in curricular developments and in effectively conducting research/survey investigations on their emphasis areas of interest and in their on-the-job training or exposures and experiences with various environmental institutions in CNMI or in-campus; and in-off campus/ island i.e. outside of the CNMI. It is worthy to note here that the NRM students have had the opportunities to be exposed and thus experienced various practicum and/or on the job training in different environmental network institutions not only here in CNMI but also in San Diego, Hawaii, Costa Rica, South Carolina, Guam and hopefully in the Philippines in the near future.

Thus, by looking forward the NRM Program is hoping to achieve a targeted 15-20 graduate students by Spring to Fall 2013 and a cohort of 80-100 NRM students ( for the 2-3 year revival period).

These evaluative results and observations were used as part of a comprehensive, integrative and demonstrative aspects of student proficiency in the NRM sciences and the environmental field of studies.

Recommendations:
On the basis of this initial Academic Program Review of the NRM program courses, the NRMP supports and reiterates the previous
each term respectively. Both terms have 100 percent completion rates. For the succeeding terms, the completion rate is consistent to be 100 percent.

NR 255 Conservation Politics and Economics was also offered twice each year during Spring & Fall, 2011 and Spring & Fall 2012, with thirteen students for 2011 and ten (with graduating) students for 2012, respectively. All four terms have 100 percent completion rates.

In the Spring 2013, 10 students enrolled with an average grade of 77 percent. All students got more than the average grade. However, one outstanding student has to withdraw in view of his heart ailment. All but this one, have 100 percent passing rate.

NR 255 Conservation Politics and Economics was also offered twice each year during Spring & Fall, 2011 and Spring & Fall 2012, with thirteen students for 2011 and ten (with graduating) students for 2012, respectively. All four terms have 100 percent completion rates.

In the Spring 2013, 10 students enrolled with an average grade of 77 percent. All students got more than the average grade. However, one outstanding student has to withdraw in view of his heart ailment. All but this one, have 100 percent passing rate.

2. Students will be able to demonstrate an understanding of the roles of politics and economic development in natural management and ecosystem management.

    All NRM students are required to take NR 253 Species and Ecosystem Management and NR 255 Conservation Politics and Economics, two of the advanced program’s course requirements. Assessment measures include the following: the Pre- and Post Evaluation (including quizzes and exams); research/case reports and other performance indicators such as project/ research/field investigations, presentations and recitations.

    Seventy (70) percent of students will effectively understand, demonstrate, and value biodiversity and ecosystem management or care for the role of government interventions, policies and economics in bio conservation issues.

    The NR 255 Conservation Politics and Economics, had been team taught (by faculty from DEQ & NMC) only for the last two semesters (Spring and Fall 2011). The other terms had been taught by NRM Program Coordinator, in view of the other adjunct instructors leaving the CNMI.

    Of the four students (one graduating), who attended during the Spring Semester 2011, the average grade for the course is 91 percent. And of the nine student who attended (three graduating) during the Fall Semester 2011, the average grade for the course is 93 percent. Of the ten students who attended during the Spring 2012, three were graduating; and all passed the course or 100 percent completion rate. The rest of the succeeding terms also had 100 percent completion rates.
### 3. Students will be able to demonstrate an understanding of the CNMI, federal and international environmental laws and regulatory enforcement procedures. They will also be able to demonstrate special topics on their emphasis areas including their experiences and exposures as career professionals in selected environmental institutions

Overall, NR 255 course exceeded the desired 70 percent success rate for all the terms. Textbooks and related materials/modules for NRM and related courses should also be introduced; and articulation agreements with existing and other Colleges/Universities should be explored for our career advancing students.

NR 290 Special Topics had been taught for the past four terms: Fall 2010 and Spring 2012 and Fall 2012 and Spring 2013 Semesters, with a total of 25 students and with the average grade for all course requirement of 95 percent.

NR 295 NRM Seminar was taught last Fall Term 2010, with eight students and a completion rates of 100 percent. The following Terms have completion rates of 100 percent. However, during the Spring term 2013 with 10 students had 70 percent passing rate but with one withdrawal for medical reasons.

NR 298 NRM internship was offered starting last Fall Term 2011 and thereafter every Fall Term 2012 with students and a completion rate of 100 percent.

Overall, the three courses exceeded the desired 70 percent success rate for the course.