

Campus Stem Planning					
Topic Area	Two Year objectives:	Action Plans	Expected Outcome	Responsible Party	Resource
For the Students: Demographics, Diversity and the STEM Pipeline	The Admissions Office and IR complete data set on CI students	(1) complete a data set for CI student characteristics, retention, admission and graduation; (2) meet with faculty of Oxnard, target increased transfer of STEM discipline students in 2012	Increased understanding of student demographics - Who are the CI students?	Dean of Enrollment/Director of Institutional Research	Information can be gathered with minimal costs
	Increase number of degrees in "high-demand" STEM fields	Create (pilot) one new program for first generation college students interested in the STEM disciplines (i.e., Summer Bridge, Early Warning and or Intervention Program); coordinate with Student Affairs; consider wellness as a high demand STEM area	Enhanced K-14 pipeline by 5% over 2009	STEM task force on funding	Create self-support extended education programs and continue LSAMP program
	Support higher levels of student engagement in research.	Expand financial support for internships and student travel; approach donors, seek Mathematics, Engineering, Science Achievement (MESEA) programs	Success; increase the number of students participating in Research by 5% over 2009	STEM task force on funding	Reallocation of state and non-state funds; @ \$3,000 each year; funding from 'Bridges to Stem Cell'
	Plan initiative to increase awareness and recognition of the need for quality math and STEM education.	Consider a proposal to initiate a 'Science Across the Curriculum' program; (1) create an Integrative STEM Education Plan (2) Review academic master plan for STEM offerings in minors and majors, include wellness.	A "Science Across the Curriculum" program has been considered by the campus.	STEM task force on Technology Education	Allocation of faculty time.
For the Faculty: Provide Support for scholarship, opportunities for extramural funding,	Develop a faculty template for a scholarly program	Place CI faculty on funding panels; grantsmanship program;	A formal planning template for faculty to improve scholarly programs is created.	Focused task force for faculty development in STEM disciplines	Replacement costs for release time (\$15K)
	Develop plan for a second science bldg	Create a Task Force to program interdisciplinary science building	Placement of a new sciences building on the CSU major capital outlay list.	Provost, Dean of Faculty & OPC	Cost to hire a planner
	Increase funding from external grants and contracts by 5%.	(1) Identify the barriers to increasing scholarly activity on the CI campus (2) create strategies to remove	Increased funding and scholarships	ORSP & The Office of Faculty development	Allocation of faculty time.

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For the University: Create structure and Awareness	Create a CI STEM INSTITUTE; integrate with Health and Nursing (incl Alz. Inst.)	Task force will create proposal for review by the senate	(1) Integration of campus STEM activities, (2) a campus information and data bank is created.	Provost and Faculty	Salary for the STEM Institute Executive Director; start-up costs
	Plan initiative to increase awareness and recognition of the need for quality math and STEM education.	Consider a proposal to initiate a 'Science Across the Curriculum' program; (1) create an Integrative STEM Education Plan (2) Review academic master plan for STEM offerings in minors and majors, include wellness	A "Science Across the Curriculum" program has been considered by the campus.	STEM task force on Technology Education	Allocation of faculty time.
	Consider some aspects of "wellness" as a high demand STEM field	Program "Wellness" into other offerings (athletics agi-health, Kinesiology, others?).	Coordinate with emerging athletic programs	Stem Task Force on Wellness Initiatives	Allocation of faculty time.
	Become a CSU leader in teaching scientific literacy	Support specific STEM teacher training courses	Database of opportunities for teachers to do summer research	Dean of Faculty & Assoc Dean of Edu.	Allocation of faculty time.
Outreach: Community Responsiveness and Institutional Positioning	Create a Science Education Community	(1) Strengthen relations with community college partners, (2) Investigate NOYCE funding for increasing the number of STEM teachers, (3) strengthen EAP partnerships and P-16	(1) NOYCE proposal is submitted, (2) CSUCI will play a key role in shaping a K-16 STEM Education vision	Assoc Dean of Edu & STEM Faculty	Allocation of faculty time.
	Create international partnerships with institutes having strong STEM programs	Create more formal partnerships with universities abroad (having strong STEM programs): seek strong advocacy by small groups of faculty or an individuals willing to serve as "stewards" of the relationship	STEM programs are strengthened	Individual faculty with support by the Dean of Faculty and the Provost	Initial data can be gathered with minimal costs; may require travel funding

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Five Year objectives:	Action Plans	Expected Outcome	Responsible Party	Resource Implications
Continue to build K-14 partnerships focused upon readiness for college-level work, especially among students of color and recent immigrants.	Assess success of student retention; shift responses if success is not improving	Improved access and retention of students engaged in the STEM disciplines	Dean of Enrollment & Director of Institutional Research	No additional cost
Increase the number of under-represented students	Continue to expand partnerships with K-12 focused upon readiness for college-level work, especially among students of color and recent immigrants.	Number of students served increases by 5%	Faculty	Receive funding (HIS, federal and state programs)
Support higher levels of student engagement in research.	Faculty continue to seek funding for faculty-student research projects	Number of students served increases by 10% over five years	Dean of Faculty & VP-ORSP	Strategic reallocation of funding and funding from 'Bridges to Stem Cell Research'
Create a Technology Education Program (graduate programs)	Strengthen community college partnerships for training workforce (STEM); 2+2 and 2+1 integrated programs	Approval of a "Technology Education" program	STEM task force on Technology Education	Hire additional STEM faculty
Improved scholarship, publication and student research opportunities	Create professional development plan for STEM faculty; place faculty on panels, bring in representation from NSF, DOE, NIH etc.	Increased funding resources from both public and private sources.	STEM task force on faculty development	Allocation of faculty time.
Completed request for a second science building	Work with advancement to secure matching funds.	Secure funding for a new science building	Provost, Dean of Faculty, Advancement & OPC	Funding needed or raised (40,000 ASF) ~ \$40M
Increase extra mural funding by 5%.	Faculty continue to seek funding; seek summer support for faculty wishing to work on research	Success at obtaining funding and creating published works.	ORSP & the Office of Faculty Development	Allocation of faculty time.

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The CI STEM Institute is operational.	Create a program of STEM initiatives inclusive of Allied Health & Wellness.	Increase in the numbers of STEM majors by 5%; enhanced scholarly activity	Provost and Executive Director, STEM INSTITUTE	Salary for the STEM Institute Executive Director
Create a Technology Education Program (graduate programs)	Strengthen community college partnerships for training workforce (STEM); 2+2 and 2+1 integrated programs	Approval of a "Technology Education" program	STEM task force on Technology Education	Hire additional STEM faculty
Health Sciences, Wellness Initiatives are aligned with the athletic program.	(1) Evaluate potential for a BS in health sciences with an emphasis 'agri-health'; (2) first science and health fair coordinate with Student Affairs and Athletics)	"Wellness" becomes part of Kinesiology, Agi-health and Athletics	Athletics Director, VP- Student Affairs, Dean of the Faculty.	Funding for science and health fairs (wellness topics ~\$5,000 yr-1)
Follow-up; enhance teacher training in the STEM disciplines	Create a professional development model aimed at strengthening the classroom practice and content knowledge of teachers of STEM.	Identify, disseminate, and support promising practices in K-12 STEM teaching	Dean of Faculty and Assoc Dean of Education	Allocation of Faculty time
(1) Increase number of teachers in the STEM disciplines, (2) Expand STEM outreach to a broader K-12 community	Continue to hold stakeholder meetings and offer summer STEM programs/ Meet with community college partners (Pipeline and joint programs (i.e., 2+2 STEM program?). (3) Examine how STEM outreach can be accomplished by STEM students	(1) A regional STEM outreach program is created, (2) Increase in the numbers of STEM majors by 5%	Dean of Faculty and Assoc Dean of Education	Outreach programs require funding
Internal Science exchange programs	Create an application process and opportunities to tie activities into sabbatical leaves	CI will host visiting faculty & students	Individual faculty with support by the Dean of Faculty and the Provost	Focus on budget-neutral partnerships; partners likely to receive third-party funding (Europe, China, India, South America, and Mexico).

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