

School of Science • The College of New Jersey
 Strategic Map, 2012-2015
Building Academically Excellent Programs That Will Garner National Recognition

2013–2014 OUTCOMES

Strategic Priority	Strategic Objective	Projects for 2013-2014	Major Outcomes
All Priorities and Objectives		Identify and enhance usage of appropriate instruments/approaches to measure program-based student learning outcomes, via hosting a visiting speaker with expertise in assessment of STEM learning outcomes and engaging with the new Director of the Center for Institutional Effectiveness.	Scheduled a School-wide webinar (during a School meeting time slot) with plenary speaker from AAC&U STEM conference, but the speaker had to postpone the date; Began series of conversations with Dr. Mosen Auryan.
		Using new department-based comparator lists, conduct site visits to aspirant/peer institutions to help benchmark SoS programs.	Individual departments discussed visits; Planning ongoing.
		Create a new School of Science Advisory group, comprised of national-level experts on cross-cutting topics.	Solicited nominations from School of Science community; Advisory group partially formed; Inaugural meeting to occur in 2014-2015.

Building a Teaching and Research Supportive Infrastructure	Acquisition and Maintenance of Instrumentation and Computing	Provide Equipment Leasing Fund (ELF) funding for strategic laboratory and computing equipment/instrumentation replacement and acquisition plans.	Funds made available; Hosted a microscopy expert for strategic discussions; Purchases ongoing.
		Finalize 5-year strategic plans for acquisition and maintenance of computing equipment.	Individual departments held discussions; Planning ongoing.
	SoS-focused Information and Technology Support	Advocate for modification/flexibility in IT policies, such that these take into account the special needs of scientific computing.	Positive conversations with IT staff; Action-oriented responses (ongoing).
	Facilities Planning to Support Current and Envisioned Programs	Engage in the planning process for the new STEM Building/STEM Complex and renovation of SoS facilities.	Held extensive conversations with architects; Significant input included in designed spaces; Project ongoing.

School of Science • The College of New Jersey
 Strategic Map, 2012-2015
Building Academically Excellent Programs That Will Garner National Recognition

2013–2014 OUTCOMES

Strategic Priority	Strategic Objective	Projects for 2013-2014	Major Outcomes
Enhancing Scholarship Broadly Across the SoS	Internal Direct Support of Faculty Research	Support new mini-grant program for faculty research.	Four proposals were received and all were funded.
		Engage science librarians in conversations and presentations on enhancing support for faculty and faculty-student collaborative research.	Hosted an informational session on "Web of Science" from a Thomson Reuters representative and secured a multi-month trial.
		Facilitate the development of sustained scholarly writing groups.	Opportunities for writing groups discussed in several meetings; Two requests were submitted and both were supported.
	Professional Travel Support for Faculty and Students	Support travel to scholarly conferences at a high level.	Approximately 72 faculty trips and 71 student trips were supported by the School of Science.
	Faculty Support and Development of Grant Writing	Enhance the competitiveness of external grant proposals via trip to visit funding agencies in Washington, DC, engagement of consultant services/programs, and enhancement of on-campus support.	Secured a new School of Science grant writer position; Advertised for the position and hired a terrific new colleague; Approximately 36 proposals/pre-proposals were submitted (23 with decisions, and 13 still pending); There were 16 awards/invitations for full proposals, and over \$2.6 million in award funding.

School of Science • The College of New Jersey
 Strategic Map, 2012-2015
Building Academically Excellent Programs That Will Garner National Recognition

2013–2014 OUTCOMES

Strategic Priority	Strategic Objective	Projects for 2013-2014	Major Outcomes
Deepening Student Engagement	Small Classes, Manage Scheduling, Strategic Use of Adjuncts	Strategically manage course schedules and average class sizes to ensure deep student engagement.	Course schedules well-planned/managed; Average class sizes supported deep student engagement.
	Increased Opportunities for Student Research, Internships, Capstones and Academic Clubs	Promote, encourage, and support student applicants for Barry Goldwater Scholarships, and other national- and international-level student fellowship programs.	Substantial number of student applicants and student nominees for Barry Goldwater Scholarships, as well as several SoS student applicants for Fulbright and Rhodes Scholarships; Awardees included 2 Goldwaters, 2 Goldwater honorable-mentions, and 1 Fulbright.
		Review learning outcomes, approval processes, and evaluation approaches for high-impact 'independent' courses (e.g., independent research, internship, capstone, etc.).	Learning outcomes for 'independent'-type courses were reviewed and updated.
		Promote and support curricular and program development, focused on integration of engaged learning pedagogies, research, and interdisciplinary connections.	Finalized approval for new interdisciplinary specialization on 'Condensed Matter' and initiated conversations on a new specialization on 'Mathematical and Computational Biology'; Expanded opportunities for science-based study abroad experiences (Germany, China, UK); Held inaugural 'SoS Young Alumni Giving Competition,' resulting in significantly improved participation levels (tripled from past year, and over 32% of the donors made first-ever gift; Two departments engaged in major curricular revisions to align with national efforts (Biology: <i>Vision & Change</i> framework; Chemistry: American Chemical Society); Student advisory board held a successful 'Week of Science' and planned a dance.
	Enhanced Opportunities for Developmental Advising and Mentoring	Expand and support successful advising strategies from NSF-funded PERSIST program.	Held several discussions at Council of Chairs and School-wide meetings, resulting in new advising approaches and revisions of departmental first-semester orientation seminars (099); Pending NSF-S-STEM grant was funded; Submitted 3 additional proposals: NSF-S-STEM (funded), NSF-REU proposal (pending), and NIH-MARC (pending); Developed and taught new science course for the TCNJ EOF summer program.
		Implement new SoS Academic Advising Policy.	Policy implemented via conversations between individual students and faculty advisors; Shared and discussed policy with the full SoS at a School meeting and with SoS Student Advisory Board; Posted on websites.

School of Science • The College of New Jersey
 Strategic Map, 2012-2015
Building Academically Excellent Programs That Will Garner National Recognition

2013–2014 OUTCOMES

Strategic Priority	Strategic Objective	Projects for 2013-2014	Major Outcomes
Building a Robust Intellectual Community	Create More Time and Opportunities for Pedagogy, Scholarship and Professional Development for Faculty and Staff	Review and modify departmental approaches, conventions, and cultures to optimize faculty time for their primary role as teacher-scholars (e.g., organizational/committee structures and work, meeting agendas, e-mail communications, service responsibilities).	Held several discussions at Council of Chairs and departmental meetings; Examples of revised approaches include 'flipped' meeting agendas and new committee structures with balanced distribution of faculty members.
		Hold an on-campus workshop on "Becoming a more Productive and Effective Teacher-Scholar: Best Practices for Student Mentoring."	Workshop conducted on Fall Break 2013, with a robust and engaging agenda developed by a planning committee and three national-level expert facilitators; Well-attended, with 52% of the SoS faculty and representation from all departments; Received positive evaluations.
		Support travel to professional development-type conferences/workshops related to pedagogy, teaching and learning, high-impact practices, scholarly practice, outcomes assessment, academic advising, time management, etc.	Supported faculty and staff travel to several key meetings, such as: AAC&U meeting on undergraduate STEM education, CUR conference, CCAS Department Chair meetings, Medical School/Allied Health advising meeting.
	Recruitment and Support of Diverse and Intellectually Courageous People	Prepare advertisements, evaluation criteria, and interview schedules for faculty and staff positions that are well-aligned with the teacher-scholar model in a primarily undergraduate, residential institution and our mission.	Hired two tenure-line faculty members, several visiting faculty members, and two staff members; Attended a webinar to build on our successful NSF-ADVANCE grant to support the advancement of women faculty members.
		Improve SoS and departmental websites.	School and all departmental websites updated and improved; Hosted a professional photographer for a two-day photo shoot of all departments.
		Identify and submit grant proposals focused on supporting students traditionally underrepresented in the SoS; and implement funded grants.	NSF-S-STEM grant funded; Submitted 3 other proposals: NSF-S-STEM (funded), NSF-REU (pending), and NIH-MARC (pending); Supported students and faculty to attend national "Out in STEM" conference.
	Increased Opportunities to Share Teaching and Scholarship within SoS and Campus Communities	Enhance SoS and departmental colloquium/seminar series.	Held 47 colloquia, including disciplinary and interdisciplinary presentations—one on increasing diversity/LGBT, and a range of external and SoS faculty speakers; Presentations well-attended; Developed a new calendar for 2014-2015 to better coordinate colloquia.
		Hold a symposium/celebration event to showcase SoS faculty achievement (e.g., research, pedagogy, curricular development, etc.).	Event planned, but not held due to scheduling conflict.
		Host a speaker and/or panel session on new pedagogical approaches in undergraduate STEM education (e.g., the flipped classroom).	Scheduled a School-wide webinar (during a School meeting time slot) with plenary speaker from AAC&U STEM conference, but the speaker had to postpone the date.