

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

2012–2013 OUTCOMES

Strategic Priority	Strategic Objective	Projects for 2012-2013	Major Outcomes
Building a Teaching and Research Supportive Infrastructure	Acquisition and Maintenance of Instrumentation and Computing	Provide year-3 funding for 5-year strategic laboratory equipment/instrumentation replacement and acquisition plan.	Funds distributed; all laboratory equipment/instrumentation has been received and/or is on order.
		Develop 5-year strategic plans for acquisition and maintenance of computing equipment.	Departmental plans in development; top-priority items were included in NJ Equipment Leasing Fund (ELF) bond application; bond application was supported and is in process.
		Create list of external funding programs for computing equipment, and prioritize submission opportunities.	Initial list developed; top-priority computing equipment items were included in NJ Equipment Leasing Fund (ELF) bond application; bond application was supported and is in process.
		Create list of external funding programs for laboratory equipment/instrumentation, and prioritize submission opportunities.	Initial list developed; top-priority laboratory equipment/ instrumentation items were included in NJ Equipment Leasing Fund (ELF) bond application; bond application was supported and is in process.
	SoS-focused Information and Technology Support	Advocate for implementation of wireless network in Science Complex and Biology Building as soon as possible.	Wireless completed in entire Science Complex, including math/physics and chemistry wings, and entire Biology Building.
		Develop a report outlining the support mechanisms (e.g., practices, policies, procedures) that are needed for the specialized nature of computing in the SoS.	Report completed and submitted to IT; positive conversations with IT staff; some key topics included in new IT strategic plan.
		Advocate for modification/flexibility in IT policies, such that these take into account the special needs of scientific computing.	Positive conversations with IT staff.
	Facilities Planning to Support Current and Envisioned Programs	Engage in planning process for the update of the campus-wide Facilities Master Plan, and advocate for SoS space needs.	Actively engaged in writing NJ Bond applications, which were supported and are in process; architectural work in progress for new STEM building and renovation of SoS facilities.
		Conduct space utilization analyses of current SoS-controlled spaces, and reaffirm/define strategic needs for the future.	Analyses ongoing, and included in architectural work for new STEM building and renovation of SoS facilities.

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Enhancing Scholarship Broadly Across the SoS	Internal Direct Support of Faculty Research	Create a new grant program to support faculty research.	New SoS Mini-grant program developed; 12 proposals were received in response to inaugural 'request for proposals' and all were funded.
	Professional Travel Support for Faculty and Students	Support travel to scholarly conferences at a relatively high level.	There were approximately 116 faculty trips and 67 student trips that were supported by the SoS.
	Faculty Support and Development of Grant Writing	Enhance the competitiveness of grant proposals via trip to visit funding agencies in Washington, DC and engagement of consultant services/programs.	Supported largest number of participants in DC trip to date; held inaugural grant proposal development/writing workshop; 38 total proposals submitted (13 pending, 25 with decisions), 16 awards (64% funding rate), and \$1.69M in award funding.
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.
		Review program learning outcomes, and update as needed.	Departmental learning outcomes reviewed, updated, and posted on websites.
		Identify appropriate instruments/approaches to measure program-based student learning outcomes.	Departmental learning outcomes mapped to curricular offerings and posted on websites; enhancements of measures for evaluation and assessment ongoing.
	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.	Doubled the number of student applicants and quadrupled the number of student nominees for Barry Goldwater Scholarships; three nominees received honorable-mention recommendations.
		Promote and support curricular and program development, focused on integration of engaged learning pedagogies and research, as well as interdisciplinary.	Developed a new interdisciplinary specialization (Condensed Matter) and initiated conversations on a second; developed/offered 3 SoS faculty-led study abroad courses; significantly enhanced 'Week of Science' including major lunch event in Eickhoff Hall (Compounds & Cuisine: The Science of What You're Eating) linked to SoS Colloquium.
	Enhanced Opportunities for Developmental Advising and Mentoring	Expand and support successful advising strategies from NSF-funded PERSIST program.	Provided peer-tutors for transfer students; other strategies identified and discussion of implementation ongoing; submitted two grant proposals to NSF: follow-on S-STEM proposal and an expansion proposal (STEP).
		Develop an SoS Academic Advising Policy, that defines the principles and strategies we value and support, as well as the shared responsibilities that student advisees and faculty advisors have.	New policy completed and posted on websites.

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Building a Robust Intellectual Community		Ensure that service responsibilities are equitably balanced among departmental faculty members.	Service responsibilities developed through an 'equitable distribution' lens.
		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, including: AAC&U meeting on undergraduate STEM education, CUR workshop for new faculty, Department Chair meeting, Medical School/Allied Health advising meeting; and NACADA academic advising meeting.
		Hold an on-campus workshop on best practices in mentoring.	Initial planning completed; workshop titled "Becoming a more Productive and Effective Teacher-Scholar: Best Practices for Student Mentoring" planned for Oct. 28, 2013, with one-on-one sessions for SoS faculty members with facilitators scheduled for the following day (Oct. 29).
		Develop an SoS funding program to catalyze dialogue.	New program developed; 3 requests for 'Catalysis Conversations' were submitted by interdisciplinary groups, and all were funded.
	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 a staff member; submitted a follow-on grant proposal to build on our successful NSF-ADVANCE grant to support the advancement of women faculty members.
		Identify and submit grant proposals focused on supporting students traditionally underrepresented in the SoS.	Submitted two grant proposals to NSF: a follow-on S-STEM proposal and a STEP proposal.
	Increased Opportunities to Share Teaching and Scholarship within SoS and Campus Communities	Enhance SoS and departmental colloquium/seminar series.	Held 47 separate colloquia presentations, including a Nobel Laureate and a broad range of external and SoS faculty speakers.
		Hold a symposium/celebration event to showcase SoS faculty achievement (e.g., research, pedagogy, curricular development, etc.).	Initial planning completed; event planned for Oct. 30, 2013.
All Priorities and Objectives		Develop department-based lists of comparator institutions/programs to benchmark SoS programs, with the opportunity for site visits to aspirant/peer institutions.	Comparator lists completed.