As the unique department within the College of Engineering with primary emphases in both science and engineering, it is important that that distinctive aspect be captured in a distinctive co-equal duality as the foundation to continue to support emerging contemporary applications. That co-equality is summarized under the following departmental research foci.

**Research Foci:** Algorithms are the core of all computer and information science and engineering.

*Theory and Implementations:* The theory, foundations and mathematics of algorithms serve as the intellectual basis for languages, computer graphics and data bases as the infrastructure for implementations into secure systems across engineered networks.

*Cryptography and Security:* The sophisticated theory of cryptography is the basis for security innovations in both hardware and software.

*Graphs and Networks:* The theory of graphs is prominent in theoretical computer science and is the crucial theory for all network engineering and applications.

With an integrative view across these core strengths, the department will have the depth and agility to respond to emerging opportunities, such as those now arising in BioScience Connecticut.

**Education:** Restructure our educational program to balance graduate and undergraduate imperatives with attention to demands upon faculty time. Overall, the graduate program deserves higher priority than has been historically true. Tactical goals should be to reduce the standard teaching load to 2.5 courses annually, with graduate faculty having at least one graduate course per year. Increase the graduate offerings, while simplifying both the undergraduate and graduate curriculum to have stable focused core subjects in each area. Constrain the total student enrollment by a student ratio of 14:1. Reconsider both curriculums for efficiencies to permit a broader scope and greater number of graduate offerings. Specifically, consider elimination of undergraduate degrees that only add marginal value, while simultaneously exploring degree options for the non-engineering population, but only while maintaining the appropriate student/faculty ratio.

**Funds:** Have the head responsible for raising $500,000 for a departmental endowment.

**Transparency:** Establish timely web posting of all departmental meeting minutes and departmental documents, increasing the support staff to fulfill this function.

**Support:** Increase administrative support staff to relieve faculty of these increasing duties.