

1046-N1-2020 **Robin H Lock*** (rlock@stlawu.edu), Dept. of Math, CS & Stat, St. Lawrence University,
Canton, NY 13617, and **Michael E Schuckers** and **Travis Atkinson**. *SiSSYS: A Senior
Capstone Course Based on Statistics in Sports*.

We describe a Statistics in Sports Senior Year Seminar (SiSSYS) that was used as a capstone course for mathematics majors at St. Lawrence University with interests in both statistics and applications in sports. We discuss the motivation, structure and organization for the seminar as one option to fulfill our Senior Year Experience (SYE) requirement. The eight students in the seminar worked together with three faculty to explore various ways that statistical techniques and real data could be used to address practical questions arising in sports settings and then pursued individual projects tailored to each student's interests. We discuss some of results and findings from those studies with applications to baseball, football, basketball, hockey, golf and bowling. (Received September 16, 2008)