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A Capstone Course in January. Preliminary report.

The dynamics of a capstone course over four weeks provides special opportunities to cap the major. Meeting daily for extended periods of time allows deeper connections between the various strands of mathematics. With more opportunities for focused reading and classroom discussion, a capstone course in January can also raise ethical issues surrounding the limitations and appropriate uses of mathematics. In addition to outlining the course and its usefulness in giving feedback, we will give some strategies on developing stronger ties between students and the major in such a course. (Received September 22, 2011)