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Alexander G. Atwood* (atwooda@sunysuffolk.edu), Department of Mathematics, Suffolk County Community College, 533 College Road, Selden, NY 11784. *The Future Impact of Artificial Intelligence on College Mathematics Education.*

Artificial Intelligence has become increasingly powerful in the past ten years. New techniques such as Deep Learning Networks have been successfully implemented to make meaningful progress in difficult problems in medical diagnoses, in game playing (such as the games of Go and Poker), and in the emerging area of autonomous vehicles. Artificial Intelligence also has the real potential of transforming the workplace by powerfully augmenting human performance. In 2013, Carl Benedikt Frey and Michael Osborne, of the University of Oxford, examined the probability of computerization for 702 occupations and found that 47% of workers in America had jobs at high risk of potential automation in the next 10 to 20 years. What should we be teaching in our math courses if Artificial Intelligence will radically change the nature of employment? What skills will our students need to navigate a world in which many jobs may be transformed or even disappear because of Artificial Intelligence? How will increasingly powerful Artificial Intelligence systems change the way in which mathematics is taught in colleges? Several case studies of the impact of Artificial Intelligence systems in various professions will be presented, and a possible future of mathematics education will be envisioned. (Received September 26, 2017)