WHEREAS, predictions suggest that we will need to boost worldwide crop production by 50-70 percent over the next several decades in order to feed the projected world population; and

WHEREAS, we will need to prepare and train a new generation of students that will work in the agricultural sciences to help us find strategies to increase crop production while protecting the environment; and

WHEREAS, newer technologies such as drone and satellite imaging, robotics, sensors, and data analytics are expected to play a major role in helping improve the efficiency of future crop production; and

WHEREAS, students in the agricultural sciences will require knowledge and experience using these new technologies in agricultural settings as these skills are expected to be in high demand from private and public sectors; and

WHEREAS, the School of Plant and Environmental Sciences (SPES) recognizes that agriculture is experiencing a fast-paced technological revolution and believes that optimal deployment of these sophisticated tools will also require a thorough understanding of crop and soil sciences; and

WHEREAS, the School of Plant and Environmental Sciences seeks to train a new generation of students who can work across disciplines with a unique combination of technological know-how and practical knowledge in the crop and soil sciences, the School is proposing a new Major entitled Integrated Agriculture Technologies (IAT); and

WHEREAS, no new resources will be required to initiate the Major in Integrated Agriculture Technologies as the School of Plant and Environmental Sciences recently filled two tenure-track positions with faculty who will contribute to the new Major; and
WHEREAS, letters of support have been received from all departments whose courses would be included in the proposed Major in Integrated Agriculture Technologies; and

WHEREAS, the new Major in Integrated Agriculture Technologies is anticipated to attract 20-30 additional students per year interested in pursuing careers in this field to Virginia Tech.

THEREFORE, BE IT RESOLVED that the Major in Integrated Agriculture Technologies under the Bachelor of Science in Plant Science within the School of Plant and Environmental Sciences be approved effective Fall 2022 and the proposal forwarded through university governance to the President for approval.
Resolution CUSP 2021-2022L

The Faculty Senate will waive our right to comment on CUSP 2021-22L: Resolution to Approve New Major, Integrated Agriculture Technologies, in Bachelor of Science in Plant Science.

Respectfully,

Dr. Robert Weiss
Faculty Senate President

Professor of Natural Hazards
Center for Coastal Studies (Coastal@VT), Director
DRRMVT, Director
Department of Geosciences
March 18, 2022

To: Vice President of Policy and Governance

The Staff Senate Committee on Policy and Issues has reviewed and approves CUSP Resolution 2021-22L.

We support this resolution and have no further comment.

Thank you,
Amber Robinson, Chair Staff Senate Policies and Issues Committee
March 18, 2022

To: Vice President of Policy and Governance

From: A/P Faculty Senate Policies and Issues Committee

The A/P Faculty Senate has reviewed and approves/endorses the Commission on Undergraduate Studies and Policies Resolution 2021-22L to Approve New Major Integrated Agriculture Technologies in Bachelor of Science in Plant Science.

We have no further comment.