

Criteria for Submissions: Concordia College defines undergraduate research as follows: Undergraduate research, encompassing all forms of scholarship and creative activity, is an investigation or inquiry conducted by a student under the mentorship of a faculty member which contributes to a high-level intellectual or creative outcome.

The scholarly work you submit to be presented at the Celebration of Student Scholarship should be of a quality such that it could be presented at a professional meeting of your peers, as appropriate for your discipline.

Research or scholarly work conducted as an independent research project, capstone or honors coursework, or other significant scholarly work conducted under the guidance of a faculty mentor either here at Concordia or another institution (such as a summer REU, co-op, or internship) that you would be willing to present elsewhere is acceptable. A basic class project you would be unwilling to present to others outside of the Concordia community is not appropriate for this event.

For abstract submission, you will be asked to:

- **Indicate your name, the names of your co-authors and your faculty mentor.**
- **Submit an abstract.** Please limit your abstract to 150 words or less.
- **Indicate whether you intend to present a poster, paper or talk, brief performance, or artistic demonstration.** All papers/talks, performances and demonstrations will be restricted to 20 minutes, including questions. Sessions will be held in classrooms on campus, the Christiansen Recital Hall and the Lab Theatre.
 - o Sessions will be scheduled for:
 - Thursday, April 12 from 4:30-5:30, 6:30-9:00 pm
 - Friday, April 13 from 8:30-9:30 am
 - o The poster session will be scheduled for Friday, April 13 from 9:20-10:20 am.
- **Indicate audio/visual or other needs.**
- **Indicate which presentation themes are appropriate for your presentation (this is not required for poster presentations).** This year, the Celebration of Student Scholarship presentations will be thematic. The planning committee has selected themes that we believe are cross disciplinary and can include presentations from many perspectives. Below we have listed the themes and have given some examples of questions that might be answered within the framework of these themes. *These questions are only meant to make you think about the breadth that the theme offers and are not at all inclusive of what could be addressed within the theme.* When you proceed to submit your abstract to the Celebration of Student Scholarship, you will be asked to check **all** themes that might apply to your presentation. When we organize the program, we will place your presentation within a selected theme.
 - o **Abstraction:** What patterns emerge when you move from concrete to the abstractions they exemplify? Which multiplicative ring structures are compatible with the additive structures of an abstract abelian group? What is gained and what is lost when art becomes more abstract and less representational?

- **Aesthetics:** What is beautiful, ugly, or sublime? What aesthetic theories influence the writing of a work of literature or a performance? What does the underlying unity of mathematics or physical law say about the nature of the cosmos?
- **Body:** What factors influence the body's development? What is your artistic representation of the body? Have social media changed how we view our body image or that of others?
- **Boundaries:** How do boundaries serve to create identity? How do boundaries contribute to interpersonal, intercultural or cellular relationships? How boundaries serve to delimit and define? How do boundaries invite into conversation?
- **Communication:** How is communication manipulated? Why is communication so important to the ways in which we live? Why is point of view essential to the message that is communicated? What molecules do cells use to communicate with each other?
- **Cultures:** How can we prevent noxious bacterial cultures from entering our food supply? How has globalization affected indigenous cultures throughout the world? What has become of "high culture" in a pop culture age?
- **Energy:** What inspires the creative impulse? Which foods are the most efficient sources of chemical energy for the body? Which catalyst lowers the activation energy of a reaction the most?
- **Environments:** Is an environment a region or a place? How do people construct settings? How do environments construct behavior? What are our moral obligations towards environments?
- **Food:** How does the use of whole foods contribute to disease management? Is food the sum of its (nutritional) parts? What is Agri/Culture? Is food sacred?
- **Identity:** How is identity influenced by social context? How similar are two proteins to each other? How is the identity of a character portrayed in a work of fiction or a theatrical production? How can we use technology to prevent identity theft?
- **Innovation:** How do new technologies, new social structures or new philosophical ideas change human interactions? How do we differentiate improvement from mere change? Are there things that remain constant no matter what else changes?
- **Perception:** How do people see or hear the world around them? How do people understand art or hear a piece of music differently? How do marketing persons make sure people notice their product?
- **Relationships:** How are relationships expressed in artistic works? What can serve as a catalyst or barrier to the development of relationships (language, demographics...)? What is the correlation between two variables of an experiment?
- **Technology:** What technologies have changed human civilization? How does technology alter interpersonal communication? How should an effective business strategy employ technology?
- **Time:** What are the patterns in/of time? How does time influence the nature of the universe? How does the understanding of time influence human self understanding and expression? How do human beings narrate their experience of time?