

Parent/Guardian Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Home Phone: \_\_\_\_\_ Cell: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_  
 Camper's Name: \_\_\_\_\_

To register using a credit card, go to [www.summer.und.edu](http://www.summer.und.edu)

To register with a check payable to UND, complete this registration form and mail to:  
**Summer Programs & Events Office**  
 Attn: Processing Camp  
 3264 Campus Road Stop 9021  
 Grand Forks, ND 58202-9021

Age: \_\_\_\_\_ Grade: \_\_\_\_\_

T-shirt Size    Adult   S   M   L   XL    Child   S   M   L   XL

**We cannot guarantee a t-shirt for registrations received less than two weeks prior to the start of camp.**

(Sizes NOT exchangeable)

**Camps:**

- Processing programming camp - August 1 - 5 - 9 am-4 pm (\$170)



**Computer Science Department**  
**Streibel Hall Room 201**  
**3950 Campus Road Stop 9015**  
**Grand Forks, ND 58202-9015**  
**Phone: 701.777.4107**

**CAMP LOCATION**

All camps are offered by the Computer Science Department, which is part of the John D. Odegard School of Aerospace Sciences. The Computer Science Department is located in Streibel Hall, located at the West end of campus.

**CAMP STAFF**

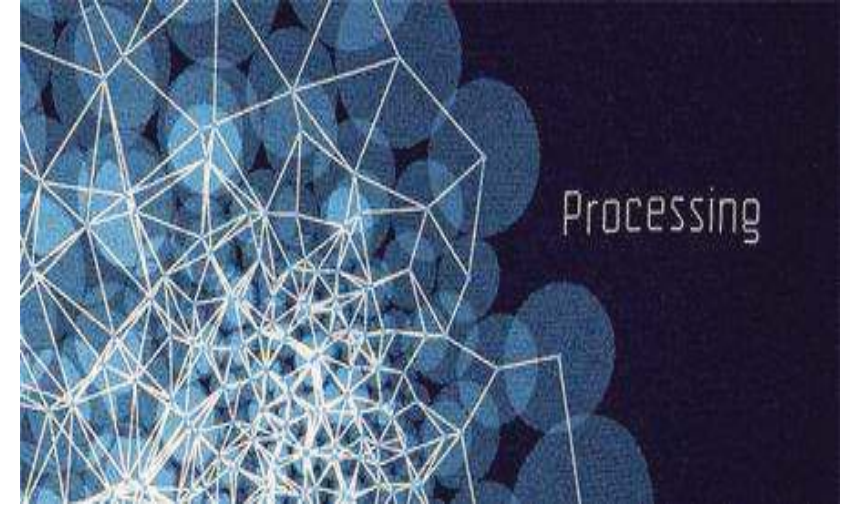
**Tom Stokke**

Tom teaches a variety of computer science classes at the University of North Dakota. His research interests include computer science education and user interfaces. Tom's hobbies include playing, coaching and refereeing volleyball. Tom also enjoys spending time with his wife, Angie, and his three young children: Nick, Erik and Elle.

**Nancy Rice** is the Department's office manager who tracks the camp finances.

**Nancy Nettum** is the Department's administrative assistant who handles the purchasing and "behind the scene" tasks.

Camp staff will also include graduate and undergraduate students from the UND Computer Science department. They have been selected because of their interest in computer science education.



**Processing**  
**Introduction to**  
**Programming**  
**Camp**

August 1 - 5, 2016  
 9 am - 4 pm



<http://camps.cs.und.edu>

Processing is an open source programming language and environment used to create images, animations, and interactive programs. Processing is an ideal programming language for an introduction to traditional text-based programming. It was initially created as a tool for non-programmers to create visual and artistic works without needing a mathematics background (although that never hurts!). Processing is highly interactive, allowing the students to get immediate visual feedback from their programs. This encourages the students to experiment and to try things out just to see what happens. Processing also allows for a more systematic approach to programming when it's time to organize and structure those skills learned from "just playing around."

Processing is based upon Java, so skills learned here will be immediately transferable to working in other languages. The Processing program is an environment with a simple editor for typing in the programs, as well as buttons to launch the programs, making it easy to go from programming to testing and back again. Processing is open source, so it is free to download for any current operating system. Processing is also expandable, with an active community of experts and beginners, so there is always a place to share experiences, to look for help, or to offer assistance to others. Processing currently has hundreds of additional libraries available, so as the students programming skills increase, Processing can be extended as well.

**As part of the camp, each child will receive a t-shirt, a certificate of completion, a CD containing the most current version of the Processing program, and numerous tutorial files to use at home.**

For more information about the Processing program to go <http://www.processing.org>.

Processing lets the student start creating images with programs such as:

```
size (200, 200);  
background (255);  
stroke (0, 128, 0);  
strokeWeight (5);  
line (0, 0, 199, 199);  
line (0, 199, 199, 0);
```



The students will then work toward learning to create images similar to that on the front of this flyer.

At the heart of Processing is a text-based programming language. Almost all of the work done in the camp will be to create graphics images. While we are teaching the students how to access the commands for the graphics, we will also introduce the basic concepts of computer programming. Some of the programming topics that will be addressed include:

- Color and screen orientation
- Working with numeric data
- Decision making and repetition
- Creating interactive programs using the keyboard and mouse

For questions about the camp contact:  
Tom Stokke • 701-777-3337  
tstokke@cs.und.edu

For questions about registration contact:  
Brenda Dufault • 701-777-0841  
brenda.dufault@UND.edu

## **Cancellation and Substitutions**

Cancellations can be made by completing a withdrawal form at [www.conted.und.edu/secure/withdrawal/](http://www.conted.und.edu/secure/withdrawal/) (you will need your confirmation email receipt number to complete the process).

If the cancellation notice is received by one week prior to the start date, you will be refunded your registration fee minus a \$35 processing fee. No refunds will be given AFTER one week prior to the start date. Substitutions can be accommodated by contacting Brenda Dufault at 701-777-0841.

- No refunds will be made due to behavior issues
- The registration fee will not be pro-rated if the camper leaves early for any reason

We reserve the right to cancel a camp due to low enrollment numbers.

This camp is geared for children ages 11 - 18. While there are no requirements for this camp, please understand that this is an introduction to text-based programming with the intent of developing problem-solving and critical-thinking skills.

Morning and afternoon snacks will be provided, however campers will need to bring their own lunch. Supervision will be provided during the lunch hour. Please contact us if other arrangements need to be made.

## **Scholarships**

A limited number of need-based scholarships are available. Please call Tom Stokke for more information, 777-3337.

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