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| **Merit Badge:** | | **Programming** |
| **Counselor Name:** | | **Robert Midkiff** |
| **Phone Number:** | | **773.888.1007** |
| **E-mail Address:** | | [midkiff.bsa@gmail.com](mailto:midkiff.bsa@gmail.com) |
| **Preferred Method of Contact:** | | **email** |
|  | **Prerequisites:**  ***list all requirements which need to be completed in advance*** | **1a: You must have earned your Cyber Chip in order to complete programming merit badge.**  **5: This requirement requires you to modify one program and write and debug 2 more programs, each using a different programming language & industry. This work must be completed outside of class. You can email the counselor using the email above to get pre-approval for your project(s). Demonstration can be done by recording a video of the project execution. These can be attached in scoutbook or done via email—just remember to always cc a parent on emails with the counselor.** |
| **Class Work:**  ***list all requirements which  will be completed in class*** | **Since this is a virtual class, you have two options to complete the requirements. You can write out your responses, preferably using the merit badge workbook, or you can record videos of yourself giving verbal responses. In the class, we will cover the following topics, and you’ll be able to ask questions to help you complete the work:**  **1b: potential injuries**  **2: history of programming**  **3: programming languages & industries**  **4: intellectual property and licensing**  **6: careers** |
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| **Use of “Online” Workbook:** | | **Found at =** [http://usscouts.org/mb/mb153.asp](about:blank) |
| **Purchase of Merit Badge Booklet:** | | **NOT REQUIRED** |
| **Number of Sessions needed:**  ***each session is 2 hours*** | | **1** |
| **Maximum Class Size:** | | **10** |
| **Notes and/or Comments:** | |  |