# Program Chair Review

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| Deliverables to Review | Location | Signature / Date Type in your name and date |
| Course Overview  Review items in Syllabus that are highlighted in gray. Insert comments to the right of the text where it is applicable. | **Click here to go to Syllabus** |  |
| General Comments on Course Overview: | | |
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| Deliverables | Location | Type in your name and date |
| Weeks 1-5 |  |  |
| General Comments on Weeks 1-5: | | |
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| Deliverables | Location | Type in your name and date |
| Weeks 6-10 |  |  |
| General Comments on Weeks 6-10: | | |
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# Course Overview and Development Goals

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| **Overview** | Elements of this form are discussed during the initial course planning meeting. The form is completed by the ID to summarize the overall approach, timeline, and contributions discussed. |
| **Course Name** | Mathematical Foundations of Robotics |
| **Course Number** | RBOT 101 |
| **Delivery Term** | Spring 1, 2021 |
| **Design/Development Start Date** | October 2, 2020 |
| **Target Completion Date** | December 15 , 2020 |
| **Program Chair** | Krishna Gopalakrishnan |
| **Email Address** |  |
| **Course Developer** | Dan Hestand |
| **Brandeis Email Address** |  |
| **Learning Designer** | John McCormick |
| **Brandeis Email Address** | johnmccormick-@brandeis.edu |
| **Overall Course Approach; Goals; Tools** |  |
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| **Faculty Contributions** |  |
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| **Instructional Designer Contributions** |  |
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# Course Development Timeline

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| Course Development Checklist | | Status | Notes |
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| 1 | Course Description and Outcomes |  |  |
| 2 | Final Assignment/Project |  |  |
| 3 | Week Title/Topic & Weekly Objectives |  |  |
| 4 | All Assignments/Projects for course |  |  |
| 5 | Determine type of weekly collaboration: discussion or group activity |  |  |
| 6 | Determine weighted grading of assignment, activities, and participation |  |  |
| COURSE OVERVIEW/SYLLABUS DRAFT - October 16 , 2020 | | | |
| 7 | Write introductory text in weekly tables below |  |  |
| 8 | Record or draft lectures |  |  |
| 9 | Participation/Discussion |  |  |
| 10 | Assignments – detailed description |  |  |
| 11 | Rubrics – grading criteria |  |  |
| 12 | Finalize Syllabus |  |  |
| WEEKS 1-5 - November 6 2020  WEEKS 6-10 - November 27, 2020 | | | |
| 13 | Weekly Intro Videos |  |  |
| 14 | Guest speakers |  |  |
| 15 | Enhanced instructional tools: Lesson tool, H5P |  |  |
| 16 | Activities: blogs, wikis, H5P |  |  |
| FIRST 2 WEEKS BUILT IN LATTE, December 10, 2020 | | | |
| 23 | Send Term Kick-off announcement sometime during the week before first day of class |  |  |
| Spring 1 Term Starts, , January 19, 2021 | | | |

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**Rubrics**

[Program Curriculum Map](https://docs.google.com/spreadsheets/d/1ki-Nr8svTDzV-7E57bY0acQazh39oi7-wE8rJupsOQg/edit?usp=sharing)

# Week 1 - What is Business Intelligence?

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| Weekly Overview |
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| As we begin our discussion of Business Intelligence, we need to distinguish between an organization’s data, information, and knowledge. These three terms should not be used interchangeably, although they often are. We can then begin to understand what Business Intelligence (BI) is all about with a definition of BI, and an explanation of what it is and how it  differs from other information technologies. We can then look at the factors that drive the importance of BI and begin to look at how BI can impact an organization and its performance  relative to other industry peers.  By the end of this week, you will be able to:   * Describe what Business Intelligence (BI) is to an organization * Identify the drivers behind the need for BI * Identify the value of BI for organizational decision making   Weekly Checklist:   * Post to the Introductory Voicethread by Saturday. * Review Week 1 Learning Guide, Chapter 1 in Sabherwal * Post to the 1st discussion question by Saturday. * Post to the 2nd discussion question by Sunday. * Post your responses to both questions by Tuesday. |
| Read and Review |
| * [Week 1 Learning Guide](https://drive.google.com/file/d/1qTCtxNr-yCyQLTI8kTuJSFeANHLTiC2W/view?usp=sharing) * *Sabherwal: Chapter 1*   **Additional Readings**   * [*What is business intelligence? Transforming data into business insights*](https://www.cio.com/article/2439504/business-intelligence-definition-and-solutions.html) * [An Introduction to Business Intelligence](https://drive.google.com/file/d/1NP5G-F5II4vIOOWxmcIIefhgXo0sKZ3V/view?usp=sharing) * [Get a Better Return on your Business Intelligence](https://drive.google.com/file/d/1Hm_fha_CMQGqJCKutsrSo44lZoRAkHzL/view?usp=sharing) |
| Collaborate |
| **Introductions:** Voicethread  Please introduce yourselves with voice or video via Voicethread, an asynchronous (recorded) interactive, slide-based technology. We will be using this collaborative tool again later as part of your group presentation in (assignment #3), later in the course.  Link to Voicethread/instructions  **Discussion: What is Business Intelligence?**  The term BI was driven by industry need. In mid-1990s it was coined by the research group Gartner; however the concept of Business Intelligence is much older going back to the 1970s. BI involves a storage facility, like a data warehouse, analytics, performance management and user interface similar to a dashboard. Today you can find platforms that are a one-stop shop where BI analytics can be done, including monitoring and analyzing performance and capturing data visualization at the end  [Discussion](https://drive.google.com/file/d/1xJamem-1bKCJr2rItnId95Z_eHxs_SR2/view?usp=sharing) |

# Week 2 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 3 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 4 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 5 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 6 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 7 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 8 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 9 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 10 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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# Week 2 - Descriptive Title

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| Weekly Overview |
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| Read and Review |
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| Collaborate |
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| Assignments |
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| Coming Next Week |
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