**IUPUI School of Engineering and Technology**

**Plan of study for the Bachelor of Science in Technical Communication (TCM)**

**Effective Fall 2014** (rev. 04/11/14)

*All IUPUI General Education Core (GEC) requirements are italicized. All GEC requirements are to be completed within the first two years of the degree.*

The TCM BS degree requires a minimum of 120 credit hours divided into **four** core areas.

# Technical Communication - 53 Credit Hours

32 required credit hours, 21 elective credit hours

**Note:** *Six (6) of these required credit hours are IUPUI General Education Core required courses: ENG-W 131 and COMM-R110.*

[*https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx*](https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx)

Table . Required Technical Communication Courses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
| *Reading, Writing, and Inquiry (GEC – Core Communication – Writing)* | *ENG-W131* | 3 |  |  |
| *Fundamentals of Speech Communication (GEC – Core Communication – Speaking and Listening)* | *COMM-R 110* | 3 |  |  |
| Principles & Practices of Technical Communication (P/Co: ENG-W 131) | TCM 23000 | 3 |  |  |
| Tools for Technical Communication (P/Co: TCM 22000 or TCM 23000 & CIT 10600 or CIT 11200) | TCM 24000 | 3 |  |  |
| Career Planning in Engineering and Technology | TCM 25000 | 3 |  |  |
| Technical and Scientific Editing (P: TCM 22000 or 23000) | TCM 31000 | 3 |  |  |
| Visual Technical Communication (P: TCM 22000 or 23000) | TCM 35000 | 3 |  |  |
| Field Experience (P: TCM 23000, 24000, 25000, 31000, & 35000) | TCM 42000 | 3 |  |  |
| Managing Document Quality (P: TCM 22000 or 23000) | TCM 42500 | 3 |  |  |
| Research Approaches for Technical and Professional Communication  (P: TCM 22000 or 23000 or 32000 or ENG-W 231) | TCM 45000 | 3 |  |  |
| Capstone in Technical Communication (P: TCM 23000, 24000, 25000, 31000, & 35000) | TCM 4xx00 | 3 |  |  |
| Technical Communication Portfolio (Co: Capstone) | TCM 43500 | 1 |  |  |

Table . Take 21 credit hours of Technical Communication Electives from Appendix . Technical Communication Electives on p.4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
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# Science, Technology, Engineering, Mathematics (STEM) - 34 Credit Hours

13 required credit hours, 21 elective credit hours

**Note:** *Twelve (12) of these credit hours must come from the IUPUI General Education Core courses*

*(3 Credit hours of Math, 3 credit hours of other Analytical Reasoning, and 6 credit hours of Life and Physical Sciences).*

[*https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx*](https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx)

Table . Required STEM Courses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
| *Choose from MATH 13000, 13100, 13200, 13600, 15300, 15400, 15900, 16600, 22100, 22200, 23100, 23200, M-118, M-119, S-165, S-166 (GEC – Analytical Reasoning – College Math)* |  | 3 |  |  |
| *Choose from CIT 12000, CSCI 23000, CSCI N-201, CSCI N-207, CSCI N-211, ECE 26100, ECE 26300, ECON E270, ECON E280 (IUPUC), ENGR 19700, NURS H-355, PHIL P-265, PSY B-305, SOC R-359 (IUPUC), STAT 30100, SWK S-372, TECH IET 15000 (GEC – Analytical Reasoning – Analytical or Statistical)* |  | 3 |  |  |
| Introduction to Technical Communication Studies | TCM 10000 | 3 |  |  |
| Using a Personal Computer or Equivalent (CIT 11200 Information Technology Fundamentals or CSCI 24000, or HIA-M 110 Computer Concepts for Health Information Administration (H) etc.) | CIT 10600 **or** Equivalent | 3 |  |  |
| Web Site Design (P: CIT 11200 or computer literacy) | CIT 21200 | 3 |  |  |

Table . Take 21 credit hours of STEM Electives from Appendix . STEM Electives on p.5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
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# Organizational & Cultural Dynamics - 12 Credit Hours

3 required credit hours, 9 elective credit hours

Table . Required Organizational & Cultural Dynamics Course

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| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
| Project Management (P: MATH 11100, ENG-W 131) or Total Quality Control | OLS 37100 or  IET 36400 | 3 |  |  |

Table . Take 9 credit hours of Organizational & Cultural Dynamics electives from Appendix . Organizational and Cultural Dynamics Electives on p. 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Course | Credit Hours | Grade | Semester Taken |
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# Other Electives - 21 Credit Hours

**Note:** *Twelve (12) of these 21 credit hours must come from the IUPUI General Education Core courses*

*(3 from Cultural Understanding, 3 from Arts and Humanities, 3 from Social Sciences, and 3 from either Arts and Humanities or Social Sciences).* In addition, 6 of these credit hours must be at the 300-level or above.

[*https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx*](https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx)

Table . Required Elective Courses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Course** | Credit **Hours** | **Grade** | Semester **Taken** |
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# Appendices

Appendix . Technical Communication Electives

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| --- | --- | --- |
| Course Number | Course Title | Cr. Hrs |
| TCM 19900 | Variable Topics in TCM | Varies |
| TCM 22000 | Technical Report Writing | 3 |
| TCM 29900 | Variable Topics in TCM | Varies |
| TCM 32000 | Written Communication in Science and Industry | 3 |
| TCM 34000 | Correspondence in Business and Industry | 3 |
| TCM 36000 | Communication in Engineering Practice | 3 |
| TCM 37000 | Oral Practicum for Technical Managers | 3 |
| TCM 38000 | Technical Communication in the Healthcare Professions | 3 |
| TCM 39000 | Technology in Popular Culture P: ENG-W 131 | 3 |
| TCM 39900 | Variable Topics in TCM | Varies |
| TCM 46000 | Engineering Communication in Academic Contexts | 2 |
| Any other TCM | New courses are being developed – any new TCM course will count here | Varies |
| COMM-C 380 | Organizational Communication | 3 |
| COMM-C 392 | Health Communication (H) | 3 |
| COMM-C 394 | Communication and Conflict | 3 |
| COMM-C 400 | Health Provider/Consumer Communication (H) | 3 |
| COMM-C 482 | Intercultural Communication (I) (P: COMM-C 180) | 3 |
| ENG-W 262 | Style and Voice for Writers | 3 |
| ENG-W 315 | Writing for the Web | 3 |
| ENG-W 318 | Finding Your E-Voice | 3 |
| ENG-W 331 | Business and Administrative Writing | 3 |
| ENG-W 426 | Writing for Popular and Professional Publications | 3 |
| ENG-Z 204 | Rhetorical Issues in Grammar and Usage | 3 |
| NEWM-N 260 | Script Writing (P: NEWM-N 202) | 3 |
| NEWM-N 450 | Usability Principles for New Media Interfaces (U) (P: NEWM-N 285) | 3 |
| HIA-M 210 | Data Organization & Presentation in the Healthcare Environment (H) | 3 |
| HIA-M 220 | Healthcare Decision Support (H) | 3 |
| HIA-M 275 | Effective Communication for the Healthcare Environment (H) | 3 |
| JOUR-J 390 | Public Relations Writing (P: JOUR-J 201 and Jour-J 219 or instr. permission) | 3 |
| OLS 37500 | Training Methods | 3 |
| RADI-R 108 or  CLAS-C 209 or  HIA-M 330 | Medical Terminology **or**  Medical Terms from Greek & Latin **or**  Medical Terminology (H) | 1  2  3 |
| COMM-M 150 | Mass Media & Contemporary Society (P: Reading Placement of at Least 80) | 3 |
| COMM-M 215 | Media Literacy | 3 |
| ENG-W 210 | Literacy and Public Life | 3 |
| ENG-W 412 | Technology and Literacy | 3 |
| INFO-I 202 | Social Informatics (P: Info-I 101) | 3 |
| INFO-I 310 | Multi-media Arts: History, Criticism, Technology | 3 |
| NEWM-N 311 | Digital Paradigm Shift: Effects in International Cultures and Society | 3 |
| NEWM-N 410 | History and Theory of Digital Media | 3 |

Appendix . STEM Electives

|  |  |  |  |
| --- | --- | --- | --- |
| Architectural Technology | Computer Engineering | Electrical Engineering | Mechanical Engineering |
| Biology (H) | Computer Engineering Tech | Electrical Engineering Tech | Motorsports Engineering |
| Biomedical Engineering | Computer Graphics Tech | Energy Engineering | Music Technology |
| Healthcare Engineering Tech Mgmt. | Computer & Information Tech | Informatics | Physics |
| Chemistry (H) | Computer Science | Math |  |
| Total STEM Electives - 21 Credit Hours *(6 credit hours from GEC Life & Physical Sciences)* | | | |

**Note:** *Six (6) credit hours of these 21 credit hours must come from the IUPUI General Education Core electives list (Life and Physical Sciences). See the IUPUI General Education Core list for choices:*

[*https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx*](https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx)

Appendix . Organizational and Cultural Dynamics Electives

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| --- | --- | --- |
| Course Number | Course Title | Cr. Hrs |
| OLS 25200 | Human Behavior in Organizations | 3 |
| OLS 26300 | Ethical Decisions in Leadership (P: ENG-W 131) | 3 |
| OLS 27400 | Applied Leadership | 3 |
| OLS 32700 | Leadership for a Global Workforce (I) (P: OLS 25200, OLS 27400, ENG-W 131, and COMM-R 110) | 3 |
| OLS 32800 | Principles of International Management (I) (P: ENG-W 131) | 3 |
| OLS 38500 | Leadership for Quality and Productivity | 3 |
| OLS 39000 | Leadership Theories and Processes (P: OLS 32700) | 3 |
| WLAC-F 350 | Introduction to Translation Studies (I) (P: 300-Level Language Completed) | 3 |
| WLAC-F 450 | Computers in Translation (I) | 3 |
| NEWM-N 250 | Team Building in Technology | 3 |
| BME 40400 or  ME 40100 or  ECE 40100 | Ethics for Biomedical Engineering (P: Senior Standing)  Engineering Ethics and Professionalism (P: Senior Standing)  Engineering Ethics and Professionalism (P: Senior Standing) | 1  1  1 |
| PSY-B 358 | Introduction to Industrial/Organizational Psychology | 3 |
| PSY-B 366 | Concepts and Applications of Organizational Psychology (P: 2 cr. of Psychology or Consent of Instructor) | 3 |
| PSY-B 368 | Concepts and Applications of Organizational Psychology (P: PSY-B 358 or Consent of Instructor) | 3 |