

National University of Engineering (UNI)
Faculty of Civil Engineering
School of Civil Engineering



Book of Bibliography by course

– 2026-II –

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Chapter 1

First Semester

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[Gentile, 1984] Gentile, E. (1984). *Notas de álgebra*. Editorial Universitaria de Buenos Aires.

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1.2 MA111. Calculus I

[Larson and Edwards, 2018] Larson, R. and Edwards, B. H. (2018). *Cálculo*. Cengage Learning, 10th edition.

[Stewart, 2016] Stewart, J. (2016). *Cálculo de una variable: Trascendentes tempranas*. Cengage Learning, 8th edition.

[Thomas et al., 2014] Thomas, G. B., Weir, M. D., and Hass, J. (2014). *Cálculo de una variable*. Pearson, 13th edition.

1.3 BCH101. Chemistry I

[Brown et al., 2017] Brown, T. L., Jr., H. E. L., Bursten, B. E., Murphy, C. J., and Woodward, P. M. (2017). *Chemistry: The Central Science*. Pearson.

[Chang and Goldsby, 2016] Chang, R. and Goldsby, K. A. (2016). *Chemistry*. McGraw-Hill Education.

- [Mamlouk and Zaniewski, 2017] Mamlouk, M. S. and Zaniewski, J. P. (2017). *Materials for Civil and Construction Engineers*. Pearson, 4th edition.

1.4 BME101. Learning Methodology Workshop

- [Booth et al., 2016] Booth, W. C., Colomb, G. G., Williams, J. M., Bizup, J., and FitzGerald, W. T. (2016). *The Craft of Research*. University of Chicago Press, 4th edition.
- [Burnett and Evans, 2016] Burnett, B. and Evans, D. (2016). *Designing Your Life: How to Build a Well-Lived, Joyful Life*. Alfred A. Knopf.
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- [Robbins and Coulter, 2017] Robbins, S. P. and Coulter, M. (2017). *Management*. Pearson, 14th edition.
- [Russell and Norvig, 2020] Russell, S. and Norvig, P. (2020). *Artificial Intelligence: A Modern Approach*. Pearson, 4th edition.

1.5 BRC101. Writing and Communication

- [American Psychological Association, 2020] American Psychological Association (2020). *Publication Manual of the American Psychological Association*. American Psychological Association, 7th edition.
- [Gurak and Lannon, 2013] Gurak, L. J. and Lannon, J. M. (2013). *A Concise Guide to Technical Communication*. Pearson, 4th edition.

1.6 BIC101. Introduction to Programming

- [Brookshear and Brylow, 2019] Brookshear, J. G. and Brylow, D. (2019). *Computer Science: An Overview*. Pearson, global edition edition.
- [Cormen et al., 2009] Cormen, T. H., Leiserson, C. E., Rivest, R. L., and Stein, C. (2009). *Introduction to Algorithms*. MIT Press, 3rd edition.

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- [Guttag, 2013] Guttag, J. V. (2013). *Introduction to Computation and Programming Using Python*. MIT Press, 1st edition.
- [Hunt and Thomas, 1999] Hunt, A. and Thomas, D. (1999). *The Pragmatic Programmer: From Journeyman to Master*. Addison-Wesley, 1st edition.
- [Zelle, 2010] Zelle, J. M. (2010). *Python Programming: An Introduction to Computer Science*. Franklin, Beedle & Associates Inc, 2nd edition.

1.7 BEC101. General Economics

- [Blank and Tarquin, 2017] Blank, L. and Tarquin, A. (2017). *Engineering Economy*. McGraw-Hill, 8th edition.
- [Mankiw, 2018] Mankiw, N. G. (2018). *Principles of Economics*. Cengage Learning, 8th edition.
- [Samuelson and Nordhaus, 2010] Samuelson, P. A. and Nordhaus, W. D. (2010). *Economics*. McGraw-Hill, 19th edition.

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Second Semester

2.1 CE1G1. General Geology

[Billings, 1972] Billings, M. P. (1972). *Structural Geology*. Prentice-Hall, 3rd edition.

[Compton, 1985] Compton, R. R. (1985). *Geology in the Field*. Wiley, 1st edition.

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2.2 CS100. Introduction to Computer Science

[Brookshear and Brylow, 2019] Brookshear, J. G. and Brylow, D. (2019). *Computer Science: An Overview*. Pearson, global edition edition.

2.3 AI161. Applied AI

[Bender et al., 2021] Bender, E. M., Gebru, T., McMillan-Major, A., and Shmitchell, S. (2021). On the dangers of stochastic parrots: Can language models be too big? In *Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency (FAccT '21)*, pages 610–623. Association for Computing Machinery. Foundational paper on AI ethics with ongoing relevance.

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- [Cloud, 2024a] Cloud, A. (2024a). AI Ethics and best practices in the chinese context. Chinese perspective on AI ethics and implementation guidelines.
- [Cloud, 2024b] Cloud, G. (2024b). Introduction to responsible ai. Google's updated framework for responsible AI development and use.
- [DeepSeek, 2024] DeepSeek (2024). Deepseek model documentation and best practices. Official documentation for DeepSeek AI models and usage guides.
- [European Union, 2024] European Union (2024). AI Act: Regulatory framework. Technical report, European Commission. Comprehensive AI regulation framework effective in 2024.
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- [OpenAI, 2024] OpenAI (2024). Best practices for prompt engineering. Updated official prompt engineering guidelines from OpenAI.
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2.4 CB1E1. Technical Drawing & CAD

- [Jensen et al., 2007] Jensen, C., Helsel, J., and Short, D. (2007). *Engineering Drawing and Design*. McGraw-Hill, 7th edition.
- [Luzadder and Duff, 1993] Luzadder, W. and Duff, J. (1993). *Fundamentals of Engineering Drawing*. Prentice Hall, 11th edition.
- [Omura and Benton, 2021] Omura, G. and Benton, B. (2021). *Mastering AutoCAD 2021 and AutoCAD LT 2021*. Sybex, 1st edition.

2.5 MA112. Calculus II

- [Larson and Edwards, 2018] Larson, R. and Edwards, B. H. (2018). *Cálculo*. Cengage Learning, 10th edition.
- [Stewart, 2016] Stewart, J. (2016). *Cálculo de una variable: Trascendentes tempranas*. Cengage Learning, 8th edition.
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2.6 BFI101. General Physics

- [Kleppner and Kolenkow, 2013] Kleppner, D. and Kolenkow, R. J. (2013). *An Introduction to Mechanics*. Cambridge University Press, 2nd edition.
- [Serway and Jewett, 2018] Serway, R. A. and Jewett, J. W. (2018). *Physics for Scientists and Engineers with Modern Physics*. Cengage Learning, 10th edition.
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- [Young and Freedman, 2015] Young, H. D. and Freedman, R. A. (2015). *Sears and Zemansky's University Physics with Modern Physics*. Pearson Education, 14th edition.

2.7 ID101. Technical and professional English I

- [Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.
- [MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.
- [Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

2.8 BEF201. Ethics and Political Philosophy

- [Fleddermann, 2020] Fleddermann, C. B. (2020). *Engineering Ethics*. Pearson, 5th edition.
- [Harris et al., 2013] Harris, C. E., Pritchard, M. S., and Rabins, M. J. (2013). *Engineering Ethics: Concepts and Cases*. Cengage Learning, 5th edition.
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- [Rawls, 1999] Rawls, J. (1999). *A Theory of Justice*. Belknap Press, revised edition.

Chapter 3

Third Semester

3.1 CE1M1. Statics

[Hibbeler, 2016] Hibbeler, R. (2016). *Engineering Mechanics: Statics*. Pearson, 14th edition.

[Meriam and Kraige, 2014] Meriam, J. and Kraige, L. (2014). *Engineering Mechanics: Statics*. Wiley, 8th edition.

3.2 CB1E2. Engineering Drawing II

[Eastman et al., 2018] Eastman, C., Teicholz, P., Sacks, R., and Liston, K. (2018). *BIM Handbook: A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers*. Wiley, 3rd edition.

[Luzadder and Duff, 1993] Luzadder, W. and Duff, J. (1993). *Fundamentals of Engineering Drawing*. Prentice Hall, 11th edition.

[Pare et al., 1997] Pare, E. G., Loving, R. O., Hill, I. L., and Pare, R. C. (1997). *Descriptive Geometry*. Prentice Hall, 9th edition.

3.3 MA121. Linear Algebra I

[Anton and Rorres, 2014] Anton, H. and Rorres, C. (2014). *Álgebra Lineal con Aplicaciones*. Limusa Wiley, 11th edition.

[Lay et al., 2016] Lay, D. C., Lay, S. R., and McDonald, J. J. (2016). *Álgebra Lineal y sus Aplicaciones*. Pearson, 5th edition.

[Strang, 2016] Strang, G. (2016). *Introduction to Linear Algebra*. Wellesley-Cambridge Press, 5th edition.

3.4 MA210. Calculus III

- [Apostol, 1969] Apostol, T. M. (1969). *Calculus, Volume II: Multi-Variable Calculus and Linear Algebra*. Wiley, 2nd edition.
- [Boyce et al., 2017] Boyce, W. E., DiPrima, R. C., and Meade, D. B. (2017). *Ecuaciones Diferenciales y Problemas con Valores en la Frontera*. Limusa Wiley, 11th edition.
- [Larson and Edwards, 2018] Larson, R. and Edwards, B. H. (2018). *Cálculo Volumen 2*. Cengage Learning, 10th edition.
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3.5 BFI102. Physics II

- [French, 1971] French, A. P. (1971). *Vibrations and Waves*. W. W. Norton & Company.
- [Griffiths, 2017] Griffiths, D. J. (2017). *Introduction to Electrodynamics*. Cambridge University Press, 4th edition.
- [Marion and Thornton, 2003] Marion, J. B. and Thornton, S. T. (2003). *Classical Dynamics of Particles and Systems*. Thomson Brooks/Cole, 5th edition.
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3.6 ID102. Technical and professional English II

- [Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.
- [MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.
- [Soars and John, 2002a] Soars, L. and John (2002a). *American Headway N 1 Student Book*. Editorial Oxford.

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Fourth Semester

4.1 CE1M2. Dynamics

[Bedford and Fowler, 2008] Bedford, A. and Fowler, W. (2008). *Engineering Mechanics: Dynamics*. Prentice Hall, 5th edition.

[Hibbeler, 2016] Hibbeler, R. (2016). *Engineering Mechanics: Dynamics*. Pearson, 14th edition.

4.2 CE2M1. Mechanics of Materials I

[Gere and Goodno, 2017] Gere, J. and Goodno, B. (2017). *Mechanics of Materials*. Cengage Learning, 9th edition.

[Hibbeler, 2017] Hibbeler, R. (2017). *Mechanics of Materials*. Pearson, 10th edition.

4.3 CE3M1. Concrete Technology

[Kosmatka and Wilson, 2016] Kosmatka, S. and Wilson, M. (2016). *Design and Control of Concrete Mixtures*. Portland Cement Association (PCA), 16th edition.

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4.4 MA202. Numerical Methods

[Burden and Faires, 2010] Burden, R. L. and Faires, J. D. (2010). *Numerical Analysis*. Cengage Learning.

[Chapra and Canale, 2015] Chapra, S. C. and Canale, R. P. (2015). *Numerical Methods for Engineers*. McGraw-Hill Education.

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- [Pacheco and Malensek, 2022] Pacheco, P. S. and Malensek, M. (2022). *An Introduction to Parallel Programming*. Morgan Kaufmann, 2nd edition.
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- [Shumway and Stoffer, 2017] Shumway, R. H. and Stoffer, D. S. (2017). *Time Series Analysis and Its Applications: With R Examples*. Springer, 4th edition.
- [Trefethen and III, 1997] Trefethen, L. N. and III, D. B. (1997). *Numerical Linear Algebra*. SIAM.
- [West, 2001] West, D. B. (2001). *Introduction to Graph Theory*. Prentice Hall, 2nd edition.

4.5 MA211. Calculus IV

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- [Boyce et al., 2017] Boyce, W. E., DiPrima, R. C., and Meade, D. B. (2017). *Ecuaciones Diferenciales y Problemas con Valores en la Frontera*. Limusa Wiley, 11th edition.
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- [Strauss, 2008] Strauss, W. A. (2008). *Partial Differential Equations: An Introduction*. Wiley, 2nd edition.

4.6 STA251. Statistics and Probability

- [Devore, 2016] Devore, J. L. (2016). *Probability and Statistics for Engineering and the Sciences*. Cengage Learning.
- [Ross, 2014] Ross, S. M. (2014). *A First Course in Probability*. Pearson.

4.7 ID201. Technical and professional English III

- [Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.
- [MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.
- [Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

Chapter 5

Fifth Semester

5.1 CE2M2. Mechanics of Materials II

[Gere and Goodno, 2017] Gere, J. and Goodno, B. (2017). *Mechanics of Materials*. Cengage Learning, 9th edition.

[Hibbeler, 2017] Hibbeler, R. (2017). *Mechanics of Materials*. Pearson, 10th edition.

5.2 ID202. Technical and professional English IV

[Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.

[MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.

[Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

Chapter 6

Sixth Semester

6.1 MA212. Ordinary Differential Equations

[Boyce et al., 2017] Boyce, W. E., DiPrima, R. C., and Meade, D. B. (2017). *Ecuaciones Diferenciales y Problemas con Valores en la Frontera*. Limusa Wiley, 11th edition.

[Zill, 2018] Zill, D. G. (2018). *Ecuaciones Diferenciales con Aplicaciones de Modelado*. Cengage Learning, 11th edition.

6.2 ID203. Technical and professional English V

[Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.

[MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.

[Soars and John, 2002g] Soars, L. and John (2002g). *American Headway N 3 Student Book*. Editorial Oxford.

[Soars and John, 2002h] Soars, L. and John (2002h). *American Headway N 3 Teachers Book*. Editorial Oxford.

[Soars and John, 2002i] Soars, L. and John (2002i). *American Headway N 3 Work Book*. Editorial Oxford.

Chapter 7

Seventh Semester

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Chapter 10

Tenth Semester

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