

**Universidad Nacional Mayor de San Marcos
(UNMSM)
Facultad de Ciencias Matemáticas
Departamento de Matemáticas
Escuela Profesional de Computación Científica**



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Capítulo 1

Primer Semestre

1.1. CS111. Introducción a la Programación

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

[Guttag, 2013] Guttag, J. V. (2013). . *Introduction To Computation And Programming Using Python*. MIT Press.

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[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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1.3. MA121. Algebra Linear 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.

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Capítulo 2

Segundo Semestre

2.1. CS100. Introducción a la Ciencia de la Computación

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

2.2. CS112. Programación Orientada a Objetos I

[Deitel, 2017] Deitel, D. . (2017). *C++17 - The Complete Guide*. Pearson, 10th edition.

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2.3. CS1D1. Estructuras Discretas I

[Grimaldi, 2003] Grimaldi, R. (2003). *Discrete and Combinatorial Mathematics: An Applied Introduction*. Pearson, 5 ed. edition.

[Rosen, 2007] Rosen, K. H. (2007). *Discrete Mathematics and Its Applications*. 7 ed. edition.

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

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

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Tercer Semestre

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[Deitel, 2017] Deitel, D. . (2017). *C++17 - The Complete Guide*. Pearson, 10th edition.

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[Grimaldi, 1997] Grimaldi, R. (1997). *Matemáticas Discretas y Combinatoria*. Addison Wesley Iberoamericana.

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3.3. CS2B1. Desarrollo Basado en Plataformas

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- [Bender et al., 2021] Bender, E. M., Gebru, T., et al. (2021). On the dangers of stochastic parrots: Can language models be too big? *FAccT '21: Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency*. Foundational paper on AI ethics with ongoing relevance.
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[White et al., 2023] White, J. et al. (2023). A prompt pattern catalog to enhance prompt engineering with chatgpt. Peer-reviewed research on prompt engineering patterns.

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Cuarto Semestre

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[Cormen et al., 2009] Cormen, T. H., Leiserson, C. E., Rivest, R. L., and Stein, C. (2009). *Introduction to Algorithms*. MIT Press, third edition edition. ISBN: 978-0-262-53305-8.

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4.2. MA212. Ecuaciones Diferenciales

[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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4.3. MA351. Estadística y Probabilidades

[Devore, 2016] Devore, J. L. (2016). *Probabilidad y Estadística para Ingeniería y Ciencias*. Cengage Learning, 9th edition.

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Quinto Semestre

5.1. MA221. Análisis Numérico I

[Burden et al., 2016] Burden, R. L., Faires, J. D., and Burden, A. M. (2016). *Análisis Numérico*. Cengage Learning, 10th edition.

[Chapra and Canale, 2015] Chapra, S. C. and Canale, R. P. (2015). *Métodos Numéricos para Ingenieros*. McGraw-Hill, 7th edition.

5.2. MA222. Análisis Real I

[Bartle and Sherbert, 2011] Bartle, R. G. and Sherbert, D. R. (2011). *Introduction to Real Analysis*. Wiley, 4th edition.

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5.3. MA223. Teoría de Grafos

[Bondy and Murty, 2008] Bondy, J. A. and Murty, U. S. R. (2008). *Graph Theory*. Springer, 1st edition.

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Sexto Semestre

6.1. MA321. Álgebra abstracta

[Dummit and Foote, 2004] Dummit, D. S. and Foote, R. M. (2004). *Abstract Algebra*. Wiley, 3rd edition.

[Rotman, 2010] Rotman, J. J. (2010). *Advanced Modern Algebra*. American Mathematical Society, 3rd edition.

6.2. MA325. Análisis Numérico II

[Burden et al., 2016] Burden, R. L., Faires, J. D., and Burden, A. M. (2016). *Análisis Numérico*. Cengage Learning, 10th edition.

[Chapra and Canale, 2015] Chapra, S. C. and Canale, R. P. (2015). *Métodos Numéricos para Ingenieros*. McGraw-Hill, 7th edition.

6.3. MA352. Procesos estocásticos

[Karlin and Taylor, 2014] Karlin, S. and Taylor, H. M. (2014). *A First Course in Stochastic Processes*. Academic Press, 2nd edition.

[Ross, 2019] Ross, S. M. (2019). *Introduction to Probability Models*. Academic Press, 12th edition.

Capítulo 7

Séptimo Semestre

7.1. MA322. Teoría de Números Computacional

[Hoffstein et al., 2008] Hoffstein, J., Pipher, J., and Silverman, J. H. (2008). *An Introduction to Mathematical Cryptography*. Springer, 2nd edition.

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7.2. MA341. Optimización I

[Bertsekas, 2016] Bertsekas, D. P. (2016). *Nonlinear Programming*. Athena Scientific, 3rd edition.

[Boyd and Vandenberghe, 2004] Boyd, S. and Vandenberghe, L. (2004). *Convex Optimization*. Cambridge University Press, 1st edition.

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[Talbi, 2009] Talbi, E.-G. (2009). *Metaheuristics: From Design to Implementation*. Wiley, 1st edition.

7.3. MA361. Modelado Matemático

[Banks et al., 2010] Banks, J., II, J. S. C., Nelson, B. L., and Nicol, D. M. (2010). *Discrete-Event System Simulation*. Prentice Hall, 5th edition.

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- [Meerschaert, 2013] Meerschaert, M. M. (2013). *Mathematical Modeling*. Academic Press, 4th edition.

Capítulo 8

Octavo Semestre

8.1. MA331. Computación Científica

- [Ascher and Petzold, 1998] Ascher, U. M. and Petzold, L. R. (1998). *Computer Methods for Ordinary Differential Equations and Differential-Algebraic Equations*. SIAM, 1st edition.
- [Goldberg, 1991] Goldberg, D. (1991). What every computer scientist should know about floating-point arithmetic. *ACM Computing Surveys*, 23(1):5–48.
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- [Higham, 2002] Higham, N. J. (2002). *Accuracy and Stability of Numerical Algorithms*. SIAM, 2nd edition.
- [Quarteroni et al., 2007] Quarteroni, A., Sacco, R., and Saleri, F. (2007). *Numerical Mathematics*. Springer, 2nd edition.
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- [Trefethen and III, 1997] Trefethen, L. N. and III, D. B. (1997). *Numerical Linear Algebra*. SIAM, 1st edition.

8.2. MA332. Análisis de Fourier y Wavelets

- [Bracewell, 2000] Bracewell, R. N. (2000). *The Fourier Transform and Its Applications*. McGraw-Hill, 3rd edition.
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- [Daubechies, 1992] Daubechies, I. (1992). *Ten Lectures on Wavelets*. SIAM, 1st edition.

- [Gonzalez and Woods, 2018] Gonzalez, R. C. and Woods, R. E. (2018). *Digital Image Processing*. Pearson, 4th edition.
- [Mallat, 2009] Mallat, S. (2009). *A Wavelet Tour of Signal Processing: The Sparse Way*. Academic Press, 3rd edition.
- [Oppenheim and Schafer, 1999] Oppenheim, A. V. and Schafer, R. W. (1999). *Discrete-Time Signal Processing*. Prentice Hall, 2nd edition.

8.3. MA355. Teoría de Aprendizaje Estadístico

- [Bishop, 2006] Bishop, C. M. (2006). *Pattern Recognition and Machine Learning*. Springer, 1st edition.
- [Hastie et al., 2009] Hastie, T., Tibshirani, R., and Friedman, J. (2009). *The Elements of Statistical Learning: Data Mining, Inference, and Prediction*. Springer, 2nd edition.
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- [Murphy, 2012] Murphy, K. P. (2012). *Machine Learning: A Probabilistic Perspective*. MIT Press, 1st edition.
- [Vapnik, 1998] Vapnik, V. N. (1998). *Statistical Learning Theory*. Wiley, 1st edition.

Capítulo 9

Noveno Semestre

9.1. MA401. Proyecto de final de carrera I

[Babbie, 2016] Babbie, E. R. (2016). *The Basics of Social Research*. Cengage Learning, 7th edition.

[Kothari, 2004] Kothari, C. R. (2004). *Research Methodology: Methods and Techniques*. New Age International, 2nd edition.

[McConnell, 2004] McConnell, S. (2004). *Code Complete: A Practical Handbook of Software Construction*. Microsoft Press, 2nd edition.

[Oates, 2006] Oates, B. J. (2006). *Researching Information Systems and Computing*. SAGE Publications, 1st edition.

[Pressman, 2014] Pressman, R. S. (2014). *Software Engineering: A Practitioner's Approach*. McGraw-Hill, 8th edition.

[Sommerville, 2015] Sommerville, I. (2015). *Software Engineering*. Pearson, 10th edition.

Capítulo 10

Décimo Semestre

10.1. MA402. Proyecto de final de carrera II

[Alley, 1996] Alley, M. (1996). *The Craft of Scientific Writing*. Springer, 3rd edition.

[Anholt, 2006] Anholt, R. R. H. (2006). *Dazzle 'Em With Style: The Art of Oral Scientific Presentation*. Academic Press, 2nd edition.

[Box et al., 2005] Box, G. E. P., Hunter, J. S., and Hunter, W. G. (2005). *Statistics for Experimenters: Design, Innovation, and Discovery*. Wiley, 2nd edition.

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[Matthews and Matthews, 2008] Matthews, J. R. and Matthews, R. W. (2008). *Successful Scientific Writing: A Step-by-Step Guide for the Biological and Medical Sciences*. Cambridge University Press, 3rd edition.

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